

Supplementary material for “Do we need to train classifiers? A forest of untrained trees (almost) beat them all”

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1 Datasets

Summary of datasets. Imbalance degree (ID) is a class-imbalance metric [1].

Table 1: Summary of datasets

Datasets	Instances	Features	Classes	IR (Imb. ratio)	ID (Imb. degree)
abalone	4,177	10	29	98.6	12.4
abalone19	4,177	10	2	125.6	1.0
accelerometer	31,991	6	2	54.9	1.0
ads	3,279	1,558	2	6.1	0.7
adult	48,842	105	2	3.2	0.5
advanced-iot	30,000	12	6	1.0	0.0
AID_1431	1,260	112	2	10.5	0.8
AID_1431_KlekotaRothFingerprinter	1,260	4,860	2	10.5	0.8
AID_1431_MACCSFingerprinter	1,260	166	2	10.5	0.8
AID_1878	1,048	112	2	4.4	0.6
AID_602330	1,927	112	2	21.4	0.9
AID_652128	998	112	3	23.7	1.8
AID1284red	362	103	2	5.3	0.7
AID1608Morered	1,033	914	2	14.0	0.9
AID1608red	1,033	154	2	14.0	0.9
AID362red	4,279	144	2	69.2	1.0
AID373AID439red	59,795	154	2	4,270.2	1.0
AID373red	59,788	155	2	948.0	1.0
AID456red	9,982	153	2	355.6	1.0
AID604	95,662	154	2	279.5	1.0
AID604AID644_AllRed	59,782	154	2	878.2	1.0
AID687AID721red	33,067	153	2	1,502.1	1.0
AID687red	33,067	153	2	347.1	1.0
AID688red	27,189	153	2	108.2	1.0
AID721morered	94	914	2	3.4	0.5
AID721red	94	87	2	3.4	0.5
AID746AID1284red	59,784	154	2	1,029.8	1.0
AID746red	59,788	154	2	161.9	1.0
aids	2,139	22	2	3.1	0.5
air_pollution	3,000	40	7	4.5	5.3
alcohol	1,044	45	5	27.0	3.6
all-aml	72	7,129	2	1.8	0.3
anneal	898	59	5	76.1	3.7
antivirus	372	531	2	4.1	0.6
anuran-f-b	7,195	22	2	103.3	1.0
anxiety	1,200	34	9	1.2	4.0
apple-quality	4,000	7	2	1.0	0.0
aps-failure	76,000	170	2	54.2	1.0
arabidopsis	33,971	4,016	2	123.0	1.0
arcene	200	10,000	2	1.3	0.1
arrhythmia	452	279	13	49.2	7.6
auction	2,043	8	2	6.8	0.7
audiology	226	93	24	19.3	5.5
audit-risk	775	26	2	1.5	0.2
autism-adolescent	104	65	2	1.5	0.2
autism-adult	704	102	2	2.7	0.5
autism-child	292	86	2	1.1	0.0
autos	205	72	6	3.0	2.3
avila	20,867	10	12	779.4	8.5
balance	625	4	3	5.8	0.7
bank	41,188	62	2	7.9	0.8

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Datasets	Instances	Features	Classes	IR (Imb. ratio)	ID (Imb. degree)
bankruptcy	250	18	2	1.3	0.1
bio	145,751	74	2	111.4	1.0
biodeg	1,055	41	2	2.0	0.3
biomed	209	8	2	1.8	0.3
bitcoin	291,670	8	29	71,882.3	10.0
body-perf	13,393	11	4	1.0	1.0
brain-tumor	20,000	35	2	1.0	0.0
breast-cancer	286	15	2	2.3	0.4
breast-cancer-ma	97	24,481	2	1.1	0.1
breast-tissue	106	9	6	1.5	2.1
bridges	107	36	7	4.1	4.3
bub12at310k-hg16-17	104,812	200	2	10.0	0.8
cad	303	13	2	2.5	0.4
cancer	699	9	2	1.9	0.3
cancer-uae	10,000	34	3	5.0	0.6
car-insurance	10,000	28	2	2.2	0.4
cardiotocography-nsp	2,126	21	3	9.4	1.7
cardiovascular	69,301	11	2	1.0	0.0
cargo2k	3,942	97	3	1.1	0.0
cars	406	7	3	3.4	1.4
ccds	36,449	4,016	2	25.2	0.9
cdc_diabetes	253,680	21	3	46.1	1.8
census	299,285	409	2	15.1	0.9
cervical-B	858	35	2	14.4	0.9
cervical-H	858	35	2	22.9	0.9
cervical-S	858	35	2	10.5	0.8
children-anemia	13,136	84	4	23.0	0.8
chrom19	1,700,517	5	2	1,059.8	1.0
chrom21	12,677	1,612	2	3,168.8	1.0
churn	10,000	12	2	3.9	0.6
cjs	2,796	100	6	2.5	2.2
ckd	200	132	2	1.8	0.3
clave	10,800	16	4	10.5	1.5
cll_sub_111	111	11,340	3	4.3	0.6
cmc	1,473	9	3	1.9	0.3
cnae-9	1,080	856	9	1.0	0.0
codon_usage	13,028	67	11	153.7	5.5
coil20	1,440	1,024	20	1.0	0.0
college	777	17	2	2.7	0.5
collins	500	160	15	11.6	9.2
colon-tumor	62	2,000	2	1.8	0.3
colposcopies-1	287	62	2	1.8	0.3
colposcopies-2	287	62	2	1.8	0.3
colposcopies-4	287	62	2	2.8	0.5
colposcopies-5	287	62	2	4.9	0.7
colposcopies-c	287	62	2	3.0	0.5
column-2c	310	6	2	2.1	0.4
column-3c	310	6	3	2.5	1.2
connect-4	67,557	126	3	93.5	2.0
coupon	12,684	118	2	1.3	0.1
covtype	581,012	54	7	103.1	4.6
covtypeCD	20,114	54	2	6.3	0.7
covtypeT	38,501	54	2	13.0	0.9
crabs	200	6	4	1.0	0.0
creditcard.trans	284,807	30	2	576.7	1.0
crowdsourced	10,845	28	6	74.4	4.6
cryotherapy	90	6	2	1.1	0.1
cultivars	320	10	40	1.0	0.0

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Datasets	Instances	Features	Classes	IR (Imb. ratio)	ID (Imb. degree)
cybersecurity	3,000	34	6	1.2	2.0
cyclopentane	271	128	2	1.3	0.1
cylinder-bands	540	564	2	1.4	0.2
datatrieve	130	8	2	10.0	0.8
dating	50,000	62	10	1.1	4.0
dbworld	64	4,702	2	1.2	0.1
default	30,000	23	2	3.5	0.6
dementia	1,000	39	2	1.1	0.0
deposit	45,211	48	2	7.5	0.8
depressed	1,429	21	2	5.0	0.7
dermatology	366	34	6	5.4	2.3
desharnais	81	11	3	4.3	1.4
df_final	163	381	4	1.6	0.2
DIA	597	196	2	3.0	0.5
diabetes-100k	100,000	76	2	10.8	0.8
diagnosis	120	7	2	1.4	0.2
diamonds	599	4	4	2.8	0.5
diamonds.all	53,940	22	5	13.4	1.6
dishonest	322	16	2	2.3	0.4
dlbcl-nih	240	7,399	2	1.3	0.1
dlbcl-stanford	47	4,026	2	1.0	0.0
dna	50,000	800	2	356.2	1.0
dota2	102,944	116	2	1.1	0.1
drebin	15,036	215	2	1.7	0.3
dropout	4,424	36	3	2.8	1.3
ecoli	336	7	8	48.0	3.5
ecoliCP-IM	220	7	2	1.8	0.3
ecoliM	336	7	2	3.3	0.5
ecoliMU	336	7	2	8.4	0.8
ecoliOM	336	7	2	15.1	0.9
ecommerce	1,000	77	4	1.0	2.0
euthyroid	3,163	44	2	9.8	0.8
fakenews	4,000	63	2	1.0	0.0
fbis-wc	2,463	2,000	17	13.0	12.3
finance	506	9	2	1.2	0.1
financial-risk	20,000	50	7	863.4	3.6
flags	194	242	8	12.2	3.4
forest	523	27	4	2.3	1.3
gas	13,910	128	6	1.8	2.2
gastrointestinal	152	699	3	2.6	1.3
gender	4,746	16	3	7.9	0.8
german	1,000	61	2	2.3	0.4
gestures	11,678	64	4	1.0	1.0
gina	3,468	970	2	1.0	0.0
gisette	7,000	5,000	2	1.0	0.0
glass	214	9	6	7.7	3.4
glass-g2	163	9	2	1.1	0.1
glassBWFP	214	9	2	2.0	0.3
glassBWNFP	214	9	2	1.8	0.3
glassContainers	214	9	2	14.4	0.9
glassNW	214	9	2	3.2	0.5
glassTableware	214	9	2	20.6	0.9
GlaucomaM	196	62	2	1.0	0.0
gli_85	85	22,283	2	2.2	0.4
glioma	50	4,434	4	1.1	1.0
glioma-grade	839	23	2	1.4	0.2
green	98	62	2	2.1	0.4
gsalc	90	9,000	6	1.0	0.0

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Datasets	Instances	Features	Classes	IR (Imb. ratio)	ID (Imb. degree)
haberman	306	3	2	2.8	0.5
hapt	10,929	561	12	58.2	5.5
har	19,622	52	5	1.7	3.1
harth	646,133	6	12	368.4	8.5
health-activity	1,000	14	4	54.7	2.7
heart	270	13	2	1.2	0.1
heart-c	302	22	2	1.2	0.1
heart-failure	5,000	12	2	2.2	0.4
heart-quantum	500	6	2	1.5	0.2
hepatitis	155	19	2	3.8	0.6
higher	145	31	8	4.0	4.2
hinselmann	97	62	2	5.2	0.7
hitters	322	169	2	1.2	0.1
hiv1-proteasa	5,938	160	2	4.9	0.7
hiva	4,229	1,617	2	27.2	0.9
horse	364	58	3	4.2	1.4
hotel-reservartions	36,275	30	2	2.1	0.3
hr	2,845	141	2	6.3	0.7
ht-sensor	928,991	11	3	1.3	1.1
htru2	17,898	8	2	9.9	0.8
hypothyroid	3,772	29	4	1,160.7	2.9
immuno-therapy	90	7	2	3.6	0.6
ionosphere	351	34	2	1.8	0.3
iris	150	4	3	1.0	0.0
irish	500	17	2	1.3	0.1
isolet	7,797	617	26	1.0	1.0
jm1	10,885	21	2	4.2	0.6
javowels	9,961	14	9	2.1	5.1
kc1-class-level-numericdefect	145	94	24	28.7	3.7
kc1-class-level-top5percentDF	145	94	2	15.3	0.9
kc2	522	21	2	3.9	0.6
kdc-4007	4,007	24,817	8	1.1	2.0
kddcup99	49,402	118	23	9,360.0	9.7
kidney	20,538	44	5	40.0	3.8
kidney-disease	400	44	2	1.7	0.2
la2s-wc	3,023	12,432	6	3.6	3.3
labor	57	29	2	1.8	0.3
leaf	340	14	36	1.9	12.1
led24	200	24	10	2.2	4.1
lenses	24	6	3	3.2	1.4
letter	20,000	16	26	1.1	13.0
linkage	57,492	11	2	271.5	1.0
loan	4,269	11	2	1.6	0.2
lrs	531	101	10	39.1	3.7
lung_discrete	73	325	7	3.7	1.4
lymphography	148	38	4	27.3	0.8
lymphoma2	96	4,026	9	9.4	4.4
machine-failure	944	9	2	1.4	0.2
magic04	19,020	10	2	1.8	0.3
malware	373	531	2	4.1	0.6
mammography	961	18	2	1.2	0.1
marketing	2,240	96	2	5.7	0.7
mba	6,194	28	3	51.4	1.8
mental-disorders	120	30	4	1.1	0.1
messidor	1,151	19	2	1.1	0.1
meter-A	86	36	2	1.4	0.2
meter-B	91	51	3	2.5	1.3
meter-C	180	43	4	2.3	0.4

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Datasets	Instances	Features	Classes	IR (Imb. ratio)	ID (Imb. degree)
meter-D	179	43	4	2.3	0.4
mfeat-fac	2,000	216	10	1.0	0.0
mfeat-fou	2,000	76	10	1.0	0.0
mfeat-kar	2,000	64	10	1.0	0.0
mfeat-mor	2,000	6	10	1.0	0.0
mfeat-pix	2,000	240	10	1.0	0.0
mfeat-zer	2,000	47	10	1.0	0.0
mice-prot	1,080	80	8	1.4	0.2
milk	1,059	7	3	1.7	0.2
mines	338	3	5	1.1	2.0
mobile	2,856	71	56	1.0	0.0
monks-1	556	6	2	1.0	0.0
monks-3	554	6	2	1.1	0.0
mushroom	8,124	117	2	1.1	0.0
music	17,996	14	11	12.8	6.3
MUT_ci300400a_cdk_ECFP2	8,347	1,024	2	1.4	0.2
MUT_ci300400a_cdk_ECFP4	8,347	1,024	2	1.4	0.2
MUT_ci300400a_cdk_ECFP6	8,347	1,024	2	1.4	0.2
MUT_ci300400a_cdk_ESTATE	8,347	79	2	1.4	0.2
MUT_ci300400a_cdk_EXTENDED	8,347	1,024	2	1.4	0.2
MUT_ci300400a_cdk_FCFP2	8,347	1,024	2	1.4	0.2
MUT_ci300400a_cdk_FCFP4	8,347	1,024	2	1.4	0.2
MUT_ci300400a_cdk_FCFP6	8,347	1,024	2	1.4	0.2
MUT_ci300400a_cdk_MACCS	8,347	166	2	1.4	0.2
MUT_ci300400a_cdk_PUBCHEM	8,347	881	2	1.4	0.2
MUT_ci300400a_cdk_STANDARD	8,347	1,024	2	1.4	0.2
MUT_ci300400a_rdkit_descriptors	7,982	117	2	1.3	0.1
myocardial	1,700	122	8	110.0	6.8
naticusdroid	29,332	86	2	1.0	0.0
nci9	60	9,712	9	1.4	2.1
ncRNA	196,348	20	19	553.3	16.8
neo	90,836	5	2	9.3	0.8
new-thyroid	215	5	3	4.9	1.5
new-thyroidT	215	5	2	5.0	0.7
newspop	39,644	59	2	1.1	0.1
NHANES_age_prediction	2,278	9	2	5.2	0.7
nomao	34,465	172	2	2.5	0.4
nursery	12,960	23	5	13.1	0.7
obesity	2,111	26	7	1.3	4.0
obs	1,075	23	4	4.1	1.5
oh0-wc	1,003	3,182	10	3.8	5.2
oh10-wc	1,050	3,238	10	3.1	4.2
oh15-wc	913	3,100	10	2.9	4.2
oh5-wc	918	3,012	10	2.5	5.2
olive	572	8	9	8.0	6.3
optdigits	5,620	64	10	1.0	4.0
orlraws10P	100	10,304	10	1.0	0.0
ozone1hr	2,536	72	2	33.3	0.9
p53-mutants	3,142	5,408	2	195.5	1.0
parkinson	1,209	27	2	1.3	0.1
particle	130,064	50	2	2.6	0.4
pc1	1,109	21	2	13.2	0.9
pcmac	1,943	3,289	2	1.4	0.2
pediatric-leukemia	327	12,558	7	5.0	3.3
pendigits	10,992	16	10	1.1	4.0
period-10f	90	10	2	2.3	0.4
persistence	3,424	126	2	1.7	0.2
personalities	59,999	60	16	1.0	8.0

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Datasets	Instances	Features	Classes	IR (Imb. ratio)	ID (Imb. degree)
pet-adoption	2,007	26	2	2.0	0.3
phishing	2,457	30	2	1.2	0.1
PhiUSIL	23,579	745	2	1.3	0.1
phy	50,000	78	2	1.0	0.0
pima	768	8	2	1.9	0.3
pirvision	15,302	56	3	10.9	1.7
placement	10,000	10	2	1.4	0.2
plrx	182	12	2	2.5	0.4
polya	9,255	169	2	1.8	0.3
popularity	39,644	59	3	11.5	1.5
post-operative	90	20	3	2.6	0.4
postures	78,095	37	5	1.1	1.0
pred-tox_mutagen_ref-desc	684	17	2	1.0	0.0
prestige	98	5	3	1.9	1.2
primary-tumor	339	23	22	10.6	8.3
processed	150,000	59	2	2.1	0.4
profb	672	67	2	2.0	0.3
promoters	106	114	2	1.0	0.0
puc-rio	165,633	21	5	4.3	1.5
pufs-128	60,000	128	2	1.0	0.0
pufs-64	240,000	64	2	1.0	0.0
pulsar	12,528	8	2	9.9	0.8
raisin	900	7	2	1.0	0.0
rejabatada	1,996	6,825	2	28.0	0.9
relathe	1,427	4,321	2	1.2	0.1
rice	18,185	10	2	1.2	0.1
rocket	6,892	17	2	1.5	0.2
RT_IOT2022	123,117	95	12	3,264.1	10.8
satimage	6,435	36	6	2.4	2.3
scadi	70	205	7	10.0	2.4
schiller	92	62	2	2.6	0.4
sclerosis	273	19	2	1.2	0.1
secom	1,567	590	2	13.9	0.9
secondary_mushroom	61,069	127	2	1.2	0.1
seeds	210	7	3	1.0	0.0
segment	2,310	19	7	1.0	0.0
segmentation	2,019	58	2	1.8	0.3
segmentO	2,310	19	2	6.0	0.7
seismic	2,583	22	2	14.1	0.9
sens-2-gram	3,801	209	2	6.6	0.7
sens-3-gram	3,801	1,877	2	6.6	0.7
sens-4-gram	3,801	11,408	2	6.6	0.7
sensorless	58,509	48	11	1.0	0.0
shoppers	12,330	28	2	5.5	0.7
sick	3,772	33	2	15.3	0.9
sirtuin6	100	6	2	1.0	0.0
smarket	1,250	8	2	1.1	0.0
smk_can_187	187	19,993	2	1.1	0.0
smoking	55,692	25	2	1.7	0.3
soil_pollution	3,000	74	5	1.1	2.0
solar-flare	1,389	20	6	7.6	2.4
sonar	208	60	2	1.1	0.1
soybean	683	82	19	10.3	12.3
spam-detection	20,000	5	2	9.9	0.8
spambase	4,601	57	2	1.5	0.2
spect	267	22	2	3.8	0.6
spectf	349	44	2	2.7	0.5
spectrometer	531	101	48	18.7	14.2

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Datasets	Instances	Features	Classes	IR (Imb. ratio)	ID (Imb. degree)
squash-unstored	52	25	3	1.0	0.0
startup	923	147	2	1.8	0.3
steel_industry	35,040	17	3	2.5	1.3
stellar	100,000	15	3	3.1	1.4
stock	1,442	60	3	4.4	0.6
stockb	2,261	12	3	1.0	0.0
streaming	5,000	15	2	1.2	0.1
stress	630	8	5	1.0	0.0
student-depression	27,901	114	2	82.3	2.6
student-habits	1,000	23	5	1.4	0.2
student-lifestyle	2,000	9	6	7.9	2.5
student-weekend	649	57	5	5.4	2.3
student-workday	649	57	5	25.1	3.6
studentap	131	70	3	2.0	0.3
swarm_aligned	24,016	2,400	2	2.2	0.4
swarm_flocking	24,016	2,400	2	1.0	0.0
swarm_grouped	24,016	2,400	2	1.7	0.2
tae	151	5	3	1.1	1.0
telco-churn	7,043	52	2	2.8	0.5
texture	5,500	40	11	1.0	0.0
theorem	6,118	56	2	1.4	0.2
thoracic	470	27	2	5.6	0.7
Thyroid_Diff	383	55	2	2.5	0.4
tis	13,375	927	2	3.0	0.5
titanic	2,201	8	2	2.1	0.4
tourist	73	77	6	7.4	2.5
trains	10	61	2	1.0	0.0
transfusion	748	4	2	3.2	0.5
tuandromd	4,464	241	2	4.0	0.6
turkish	400	50	4	1.0	0.0
tvnews	129,685	231	2	1.7	0.3
ur3_cobotops_grip	7,355	20	2	29.2	0.9
ur3_cobotops_stop	7,355	20	2	25.4	0.9
urban	675	147	9	4.1	4.3
ustilago	55,279	4,016	2	93.2	1.0
vehicle	846	18	4	1.1	0.1
vote	435	16	2	1.6	0.2
vowel	990	10	11	1.0	0.0
wap-wc	1,560	8,460	20	57.0	12.3
warpar10p	130	2,400	10	1.0	0.0
warppie10p	210	2,420	10	1.0	0.0
waveform	5,000	40	3	1.0	1.0
weather-related	5,200	50	11	3.3	7.2
weight-lift	39,242	169	5	1.7	3.1
white-clover	63	39	4	1.9	0.3
wifi-loc	2,000	7	4	1.0	0.0
wilt	4,839	5	2	17.5	0.9
wine	178	13	3	1.5	1.1
winequality-red	1,599	11	6	62.0	3.6
winequality-white	4,898	11	7	104.7	2.7
winnipeg	32,584	174	7	73.3	2.5
wisc_bc	569	30	2	1.7	0.3
yale	165	1,024	15	1.0	0.0
yeast	1,484	8	10	22.1	5.5
yeastCYT-POX	483	8	2	22.1	0.9
yeastEXC	1,484	8	2	40.3	1.0
yeastME1	1,484	8	2	32.0	0.9
yeastME2	1,484	8	2	27.6	0.9

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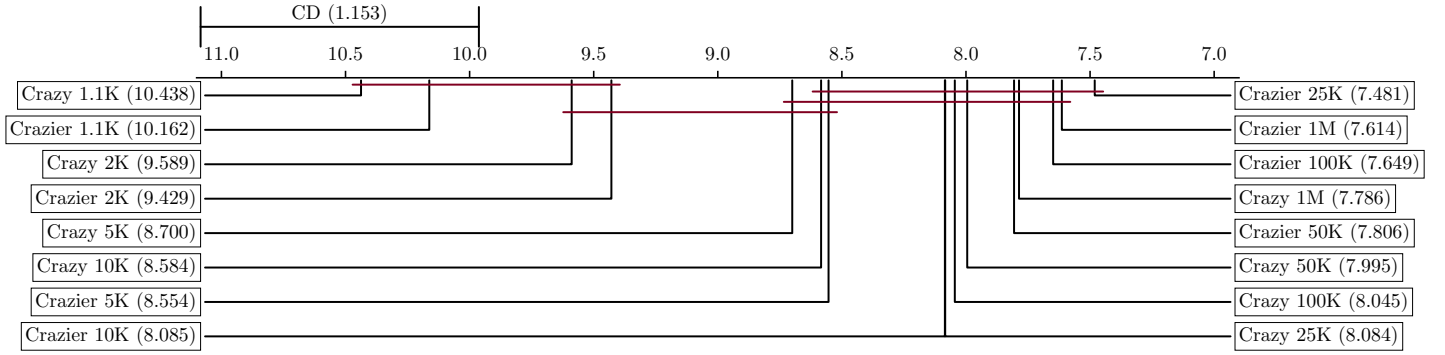
Datasets	Instances	Features	Classes	IR (Imb. ratio)	ID (Imb. degree)
zip	9,298	256	10	2.2	7.1

Summary of large datasets.

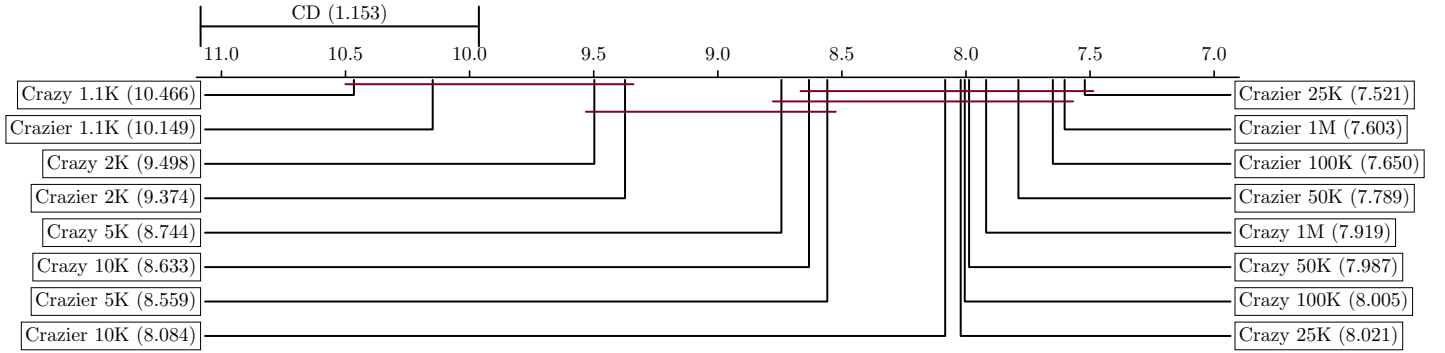
Table 2: Summary of large datasets

Datasets	Instances	Features	Classes	IR (Imb. ratio)	ID (Imb. degree)
airline	129,880	24	2	1.3	0.1
arabidopsis	3,397,217	400	2	123.2	1.0
bio	145,751	74	2	111.4	1.0
bitcoin	2,916,697	8	29	410,755.0	21.0
bookings	119,390	258	3	62.2	0.9
bub10at310k-hg16-17	104,812	200	2	10.0	0.8
bub12at310k-hg16-17	104,812	200	2	10.0	0.8
bub8at310k-hg16-17	104,812	200	2	10.0	0.8
ccds	364,495	4,016	2	25.2	0.9
cdc_diabetes	253,680	21	3	46.1	1.8
census	299,285	409	2	15.1	0.9
chrom19	1,700,517	5	2	1,059.8	1.0
chrom21	1,267,701	1,612	2	4,893.6	1.0
comedy_comparisons	1,138,562	38,450	2	1.1	0.0
covid19	1,048,575	19	7	269.6	4.6
covtype	581,012	54	7	103.1	4.6
creditcard.trans	284,807	30	2	576.7	1.0
dna	5,000,000	800	2	347.7	1.0
email_phishing	524,846	8	2	74.5	1.0
exon.vs.intron-freq	506,373	64	2	1.1	0.0
fonts	832,670	410	153	113.6	123.2
har70	2,259,597	6	7	236.6	3.7
harth	6,461,328	6	12	369.0	8.5
hepmass	10,500,000	28	2	1.0	0.0
higgs	11,000,000	28	2	1.1	0.1
ht-sensor	928,991	11	3	1.3	1.1
kddcup99	4,898,431	122	23	701,971.8	16.7
linkage	5,749,132	11	2	273.7	1.0
localization	164,860	31	11	39.4	6.5
ncRNA	1,963,479	20	19	554.1	16.8
opn310k	104,812	200	2	10.0	0.8
particle	130,064	50	2	2.6	0.4
PhiUSIIL	235,795	745	2	1.3	0.1
phone-acc	13,062,475	27	7	1.4	4.0
phone-gyr	13,932,632	24	7	1.4	3.1
poker	1,025,103	25	10	28,539.1	6.7
processed	150,000	59	2	2.1	0.4
puc-rio	165,633	21	5	4.3	1.5
pufs-128	6,000,000	128	2	1.0	0.0
pufs-64	2,400,000	64	2	1.0	0.0
rcv1	534,135	47,236	53	21,737.8	40.4
RT_IOT2022	123,117	95	12	3,264.1	10.8
sepsis	129,392	3	2	10.0	0.8
skin	244,801	3	2	3.8	0.6
susy	5,000,000	17	2	1.2	0.1
tvnews	129,685	231	2	1.7	0.3
ustilago	614,211	4,012	2	93.3	1.0
watch-acc	3,540,962	20	7	1.5	3.1
watch-gyr	3,205,431	20	7	1.2	3.0
winnipeg	325,834	174	7	74.4	2.5

2 Supplementary figures



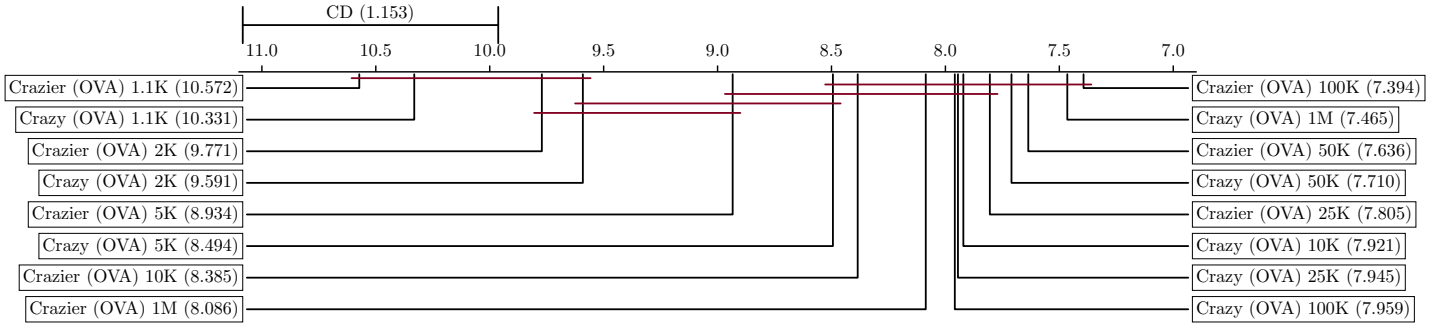
(a) Kappa



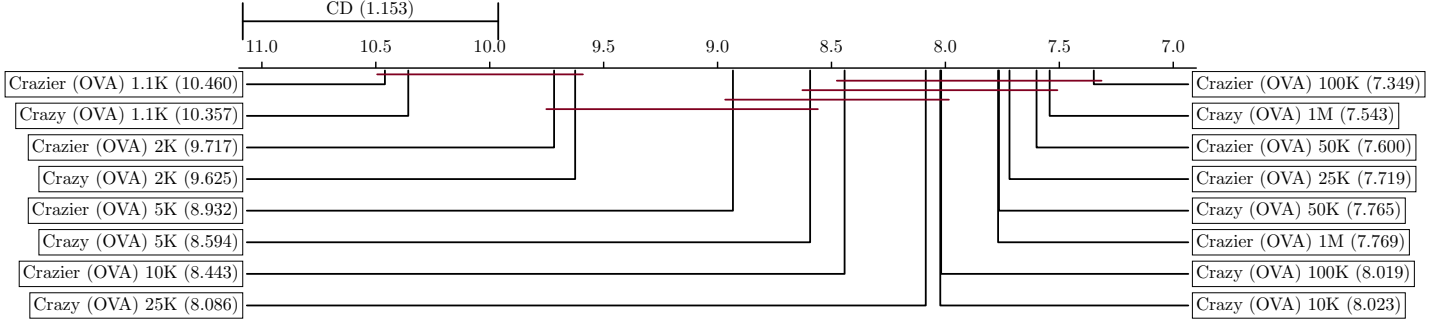
(b) MCC

Figure 1: Nemenyi test results for the different sizes of generated trees for Accuracy, Kappa, and MCC metrics.

2.1 κ -error diagrams

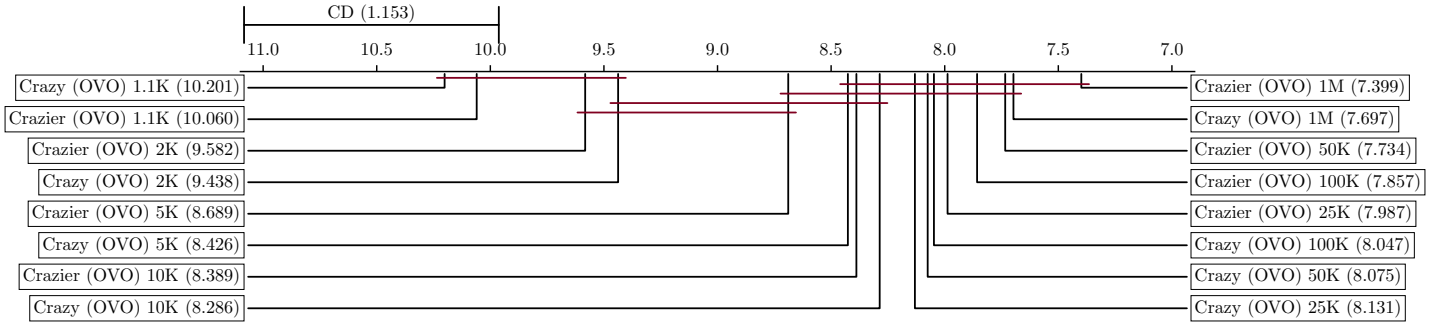


(a) Kappa

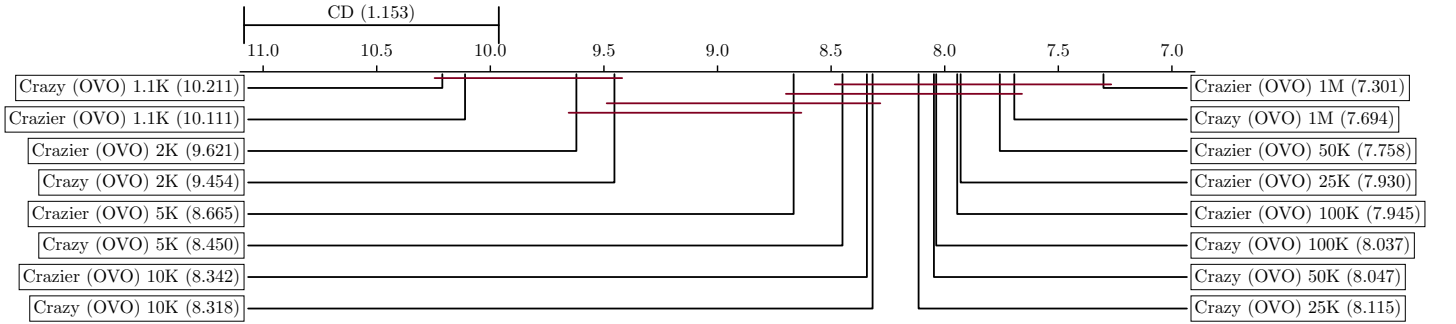


(b) MCC

Figure 2: Nemenyi test results for the different sizes of generated trees for the OVA approach for Accuracy, Kappa, and MCC metrics.

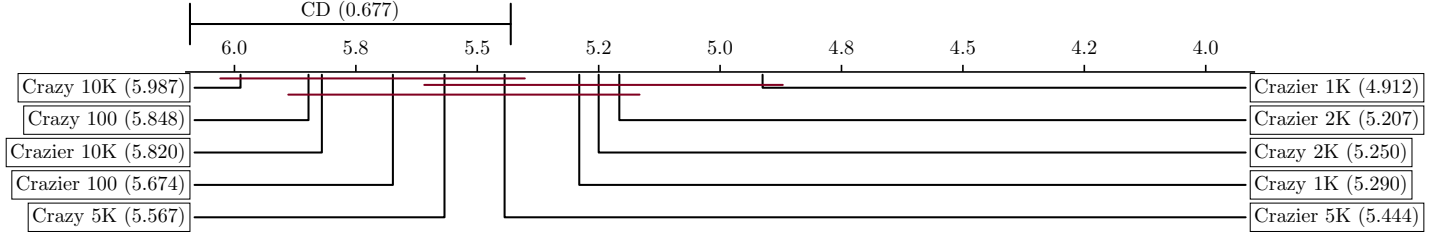


(a) Kappa

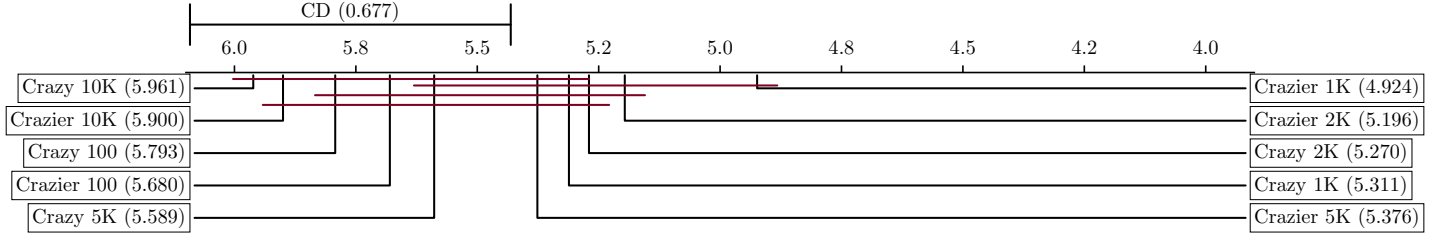


(b) MCC

Figure 3: Nemenyi test results for the different sizes of generated trees for the OVO approach for for Accuracy, Kappa, and MCC metrics.

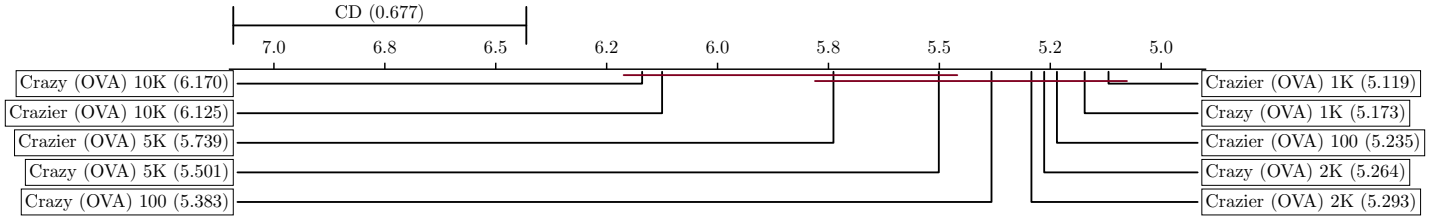


(a) Kappa

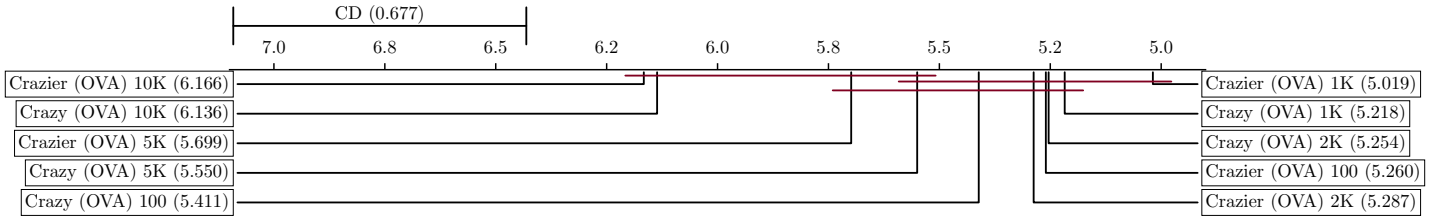


(b) MCC

Figure 4: Nemenyi test results for the different sizes of the forest for Accuracy, Kappa, and MCC metrics.

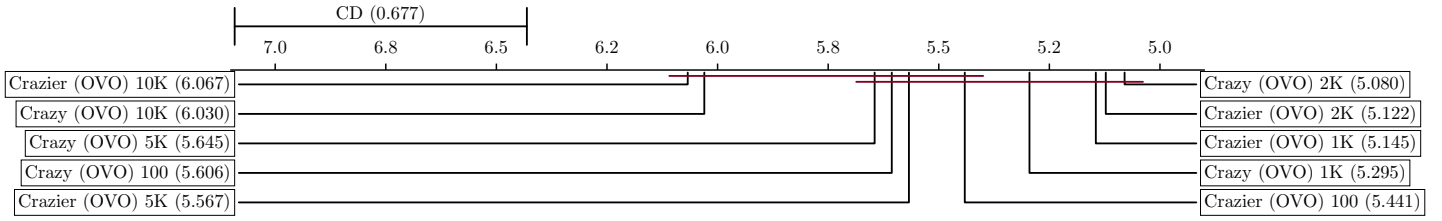


(a) Kappa

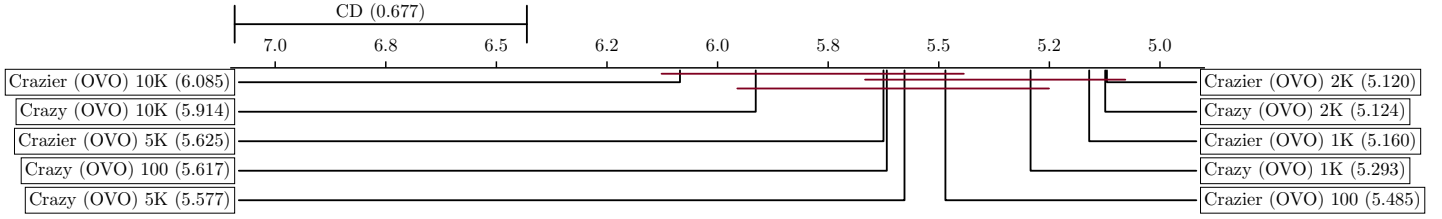


(b) MCC

Figure 5: Nemenyi test results for the different sizes of the forest for the OVA approach for Accuracy, Kappa, and MCC metrics.

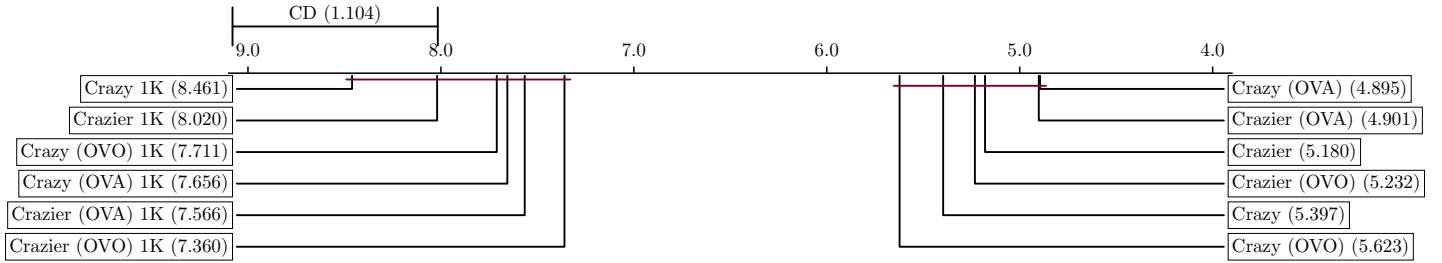


(a) Kappa

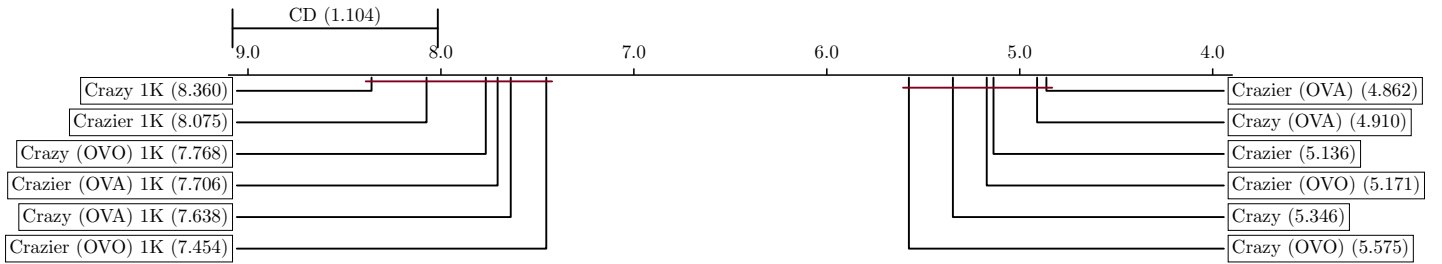


(b) MCC

Figure 6: Nemenyi test results for the different sizes of the forest for the OVO approach for for Accuracy, Kappa, and MCC metrics.

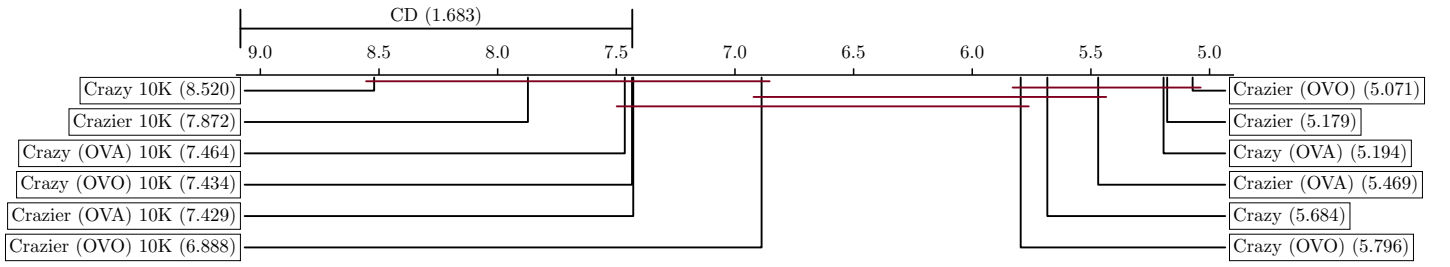


(a) Kappa

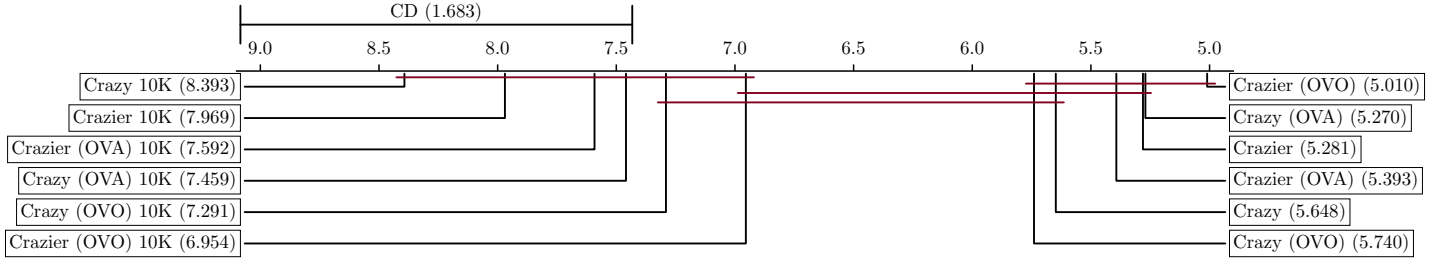


(b) MCC

Figure 7: Nemenyi test results for the sampling size of 1,000 instances for Kappa and MCC metrics.

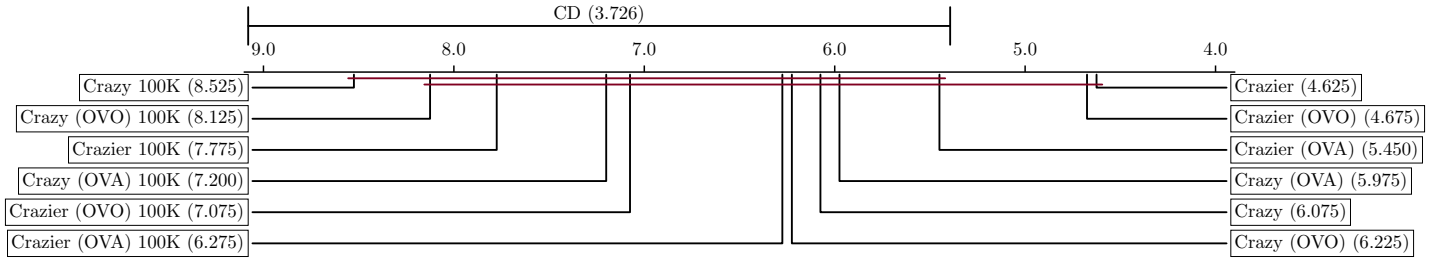


(a) Kappa

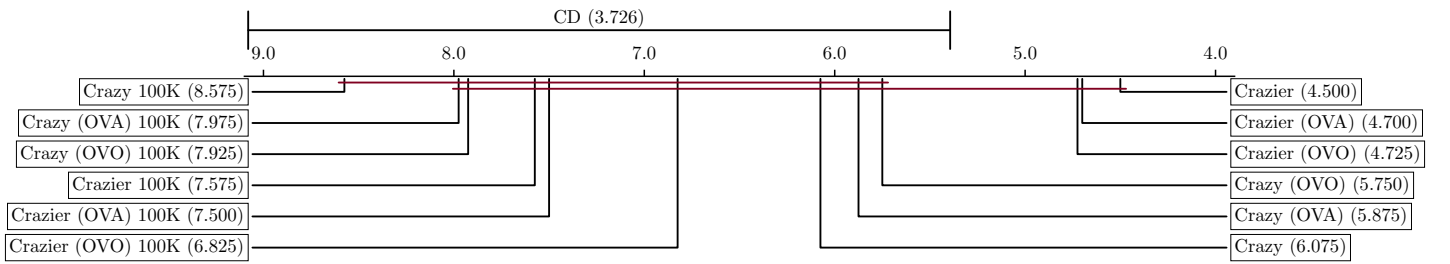


(b) MCC

Figure 8: Nemenyi test results for the sampling size of 10,000 instances for Kappa and MCC metrics.



(a) Kappa



(b) MCC

Figure 9: Nemenyi test results for the sampling size of 100,000 instances for Kappa and MCC metrics.

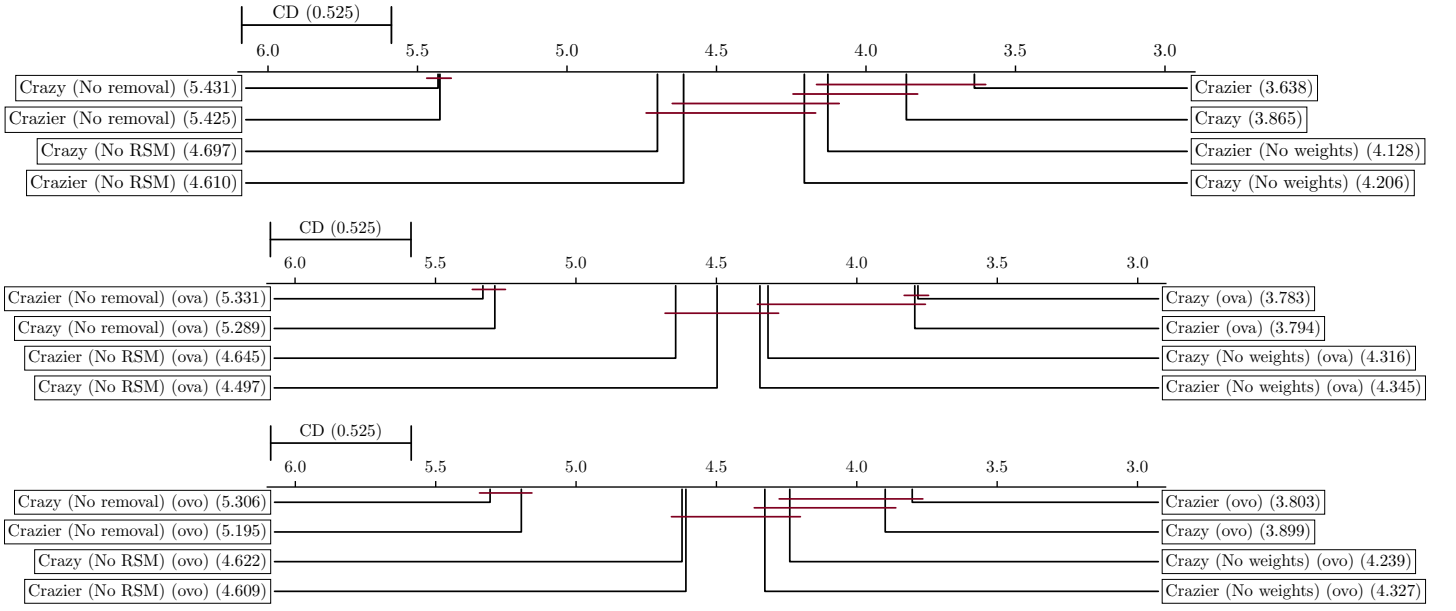


Figure 10: Nemenyi test results for the ablation study for the Kappa metric.

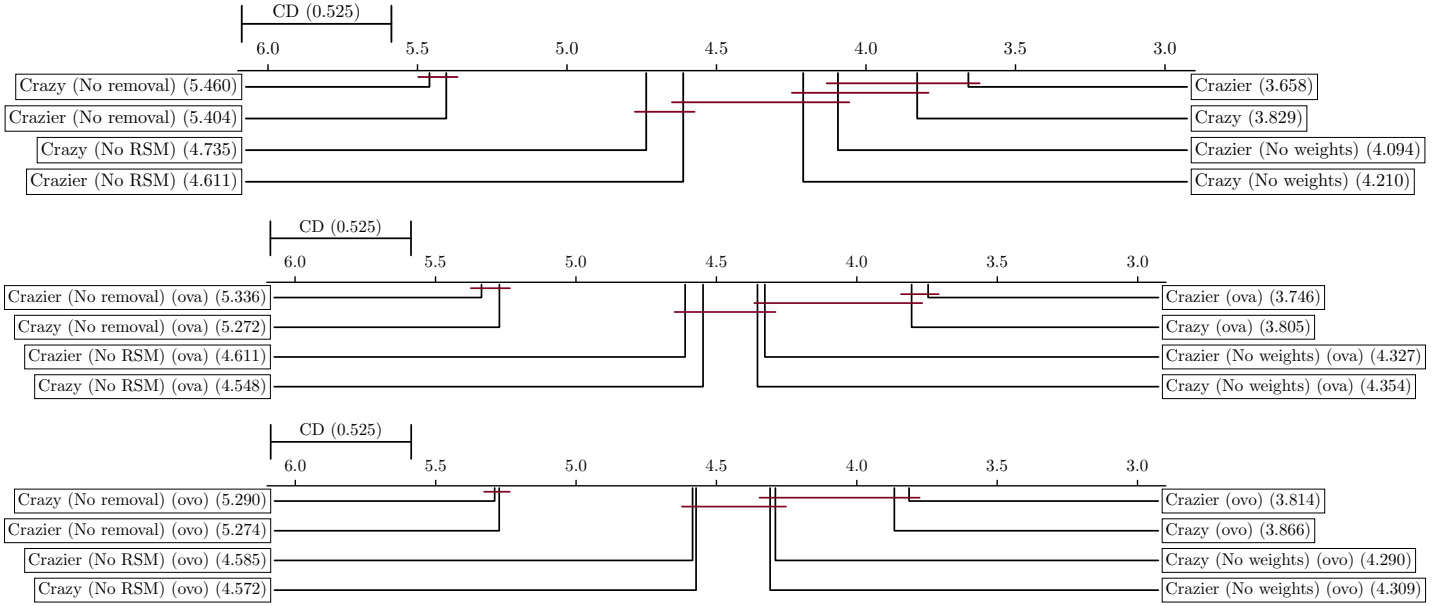
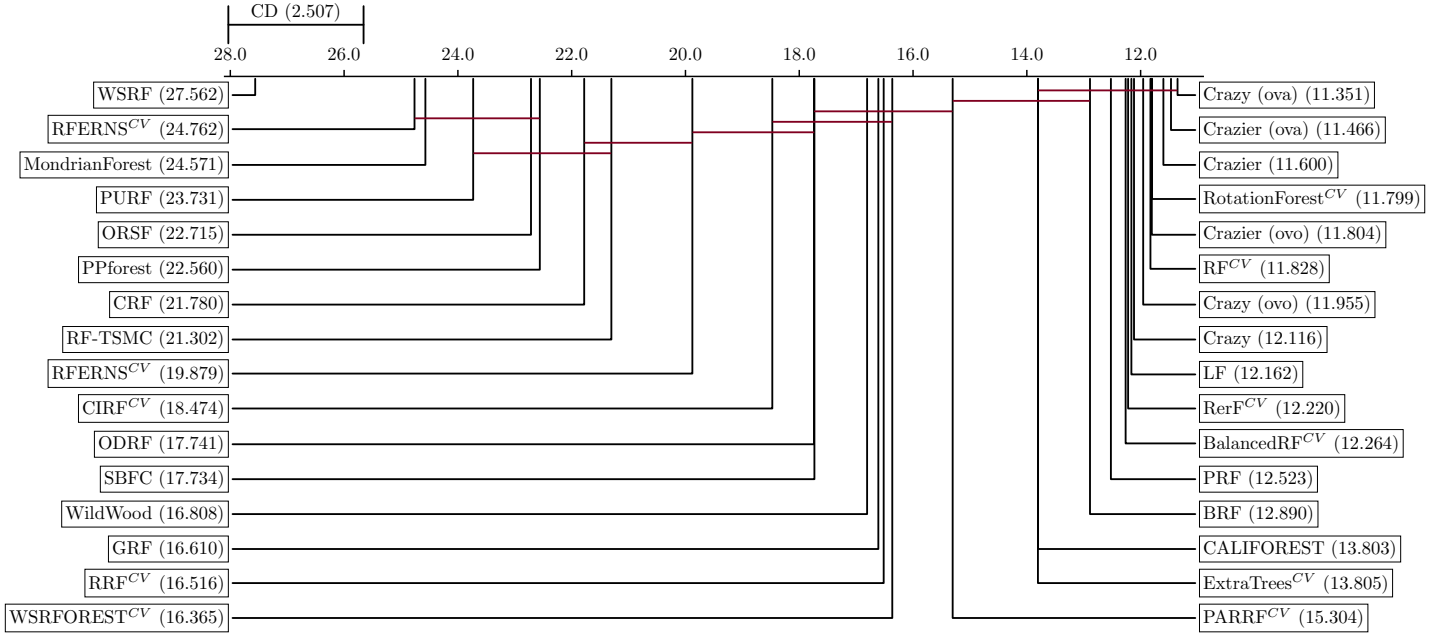
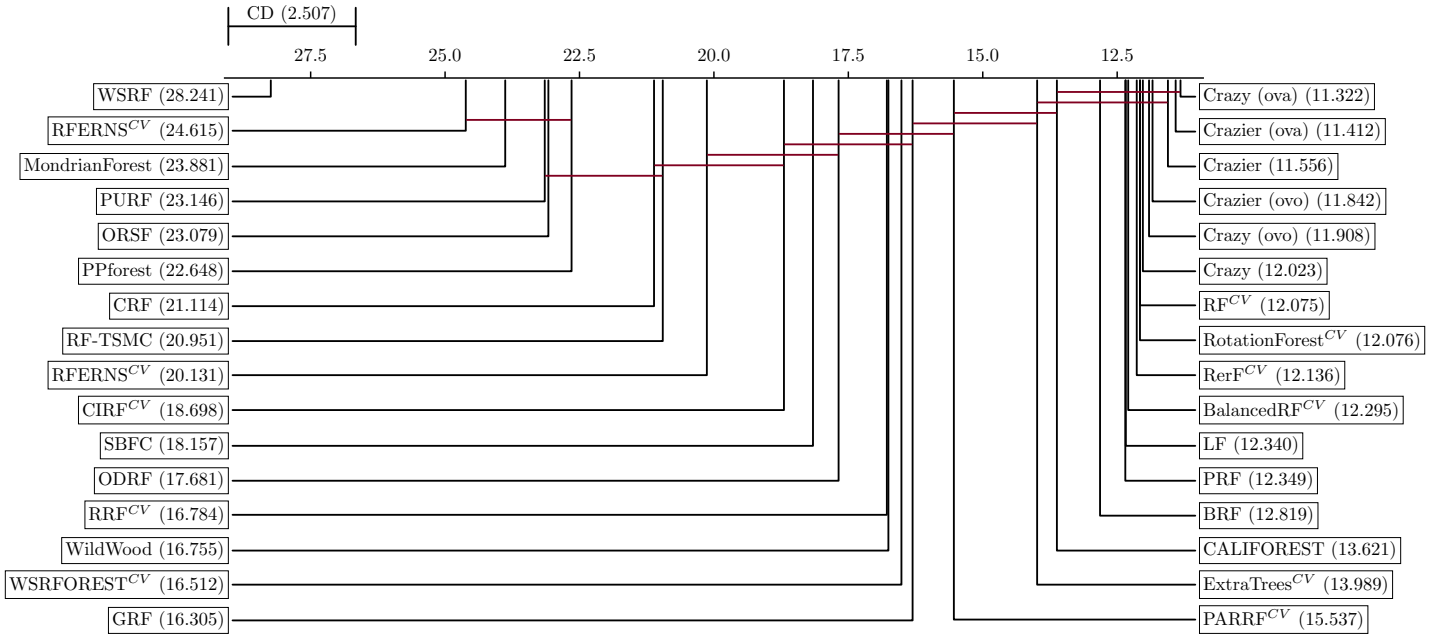


Figure 11: Nemenyi test results for the ablation study for the MCC metric.

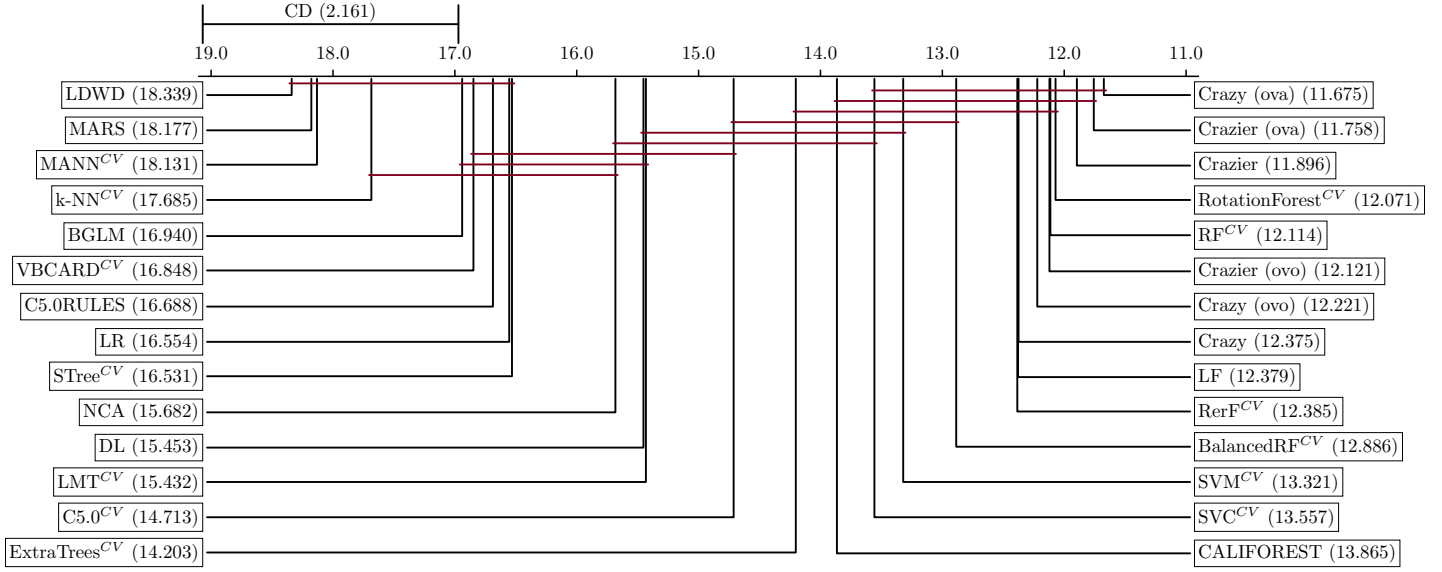


(a) Kappa

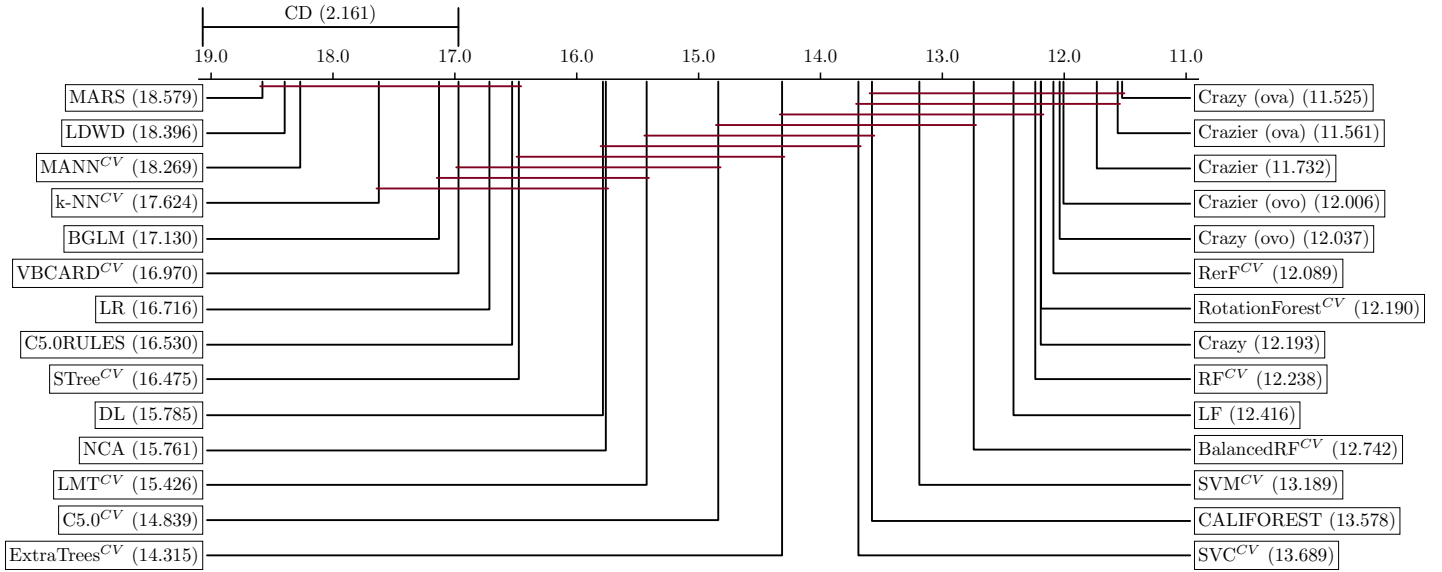


(b) MCC

Figure 12: Nemenyi test results for the forest methods for the Kappa and MCC metrics.

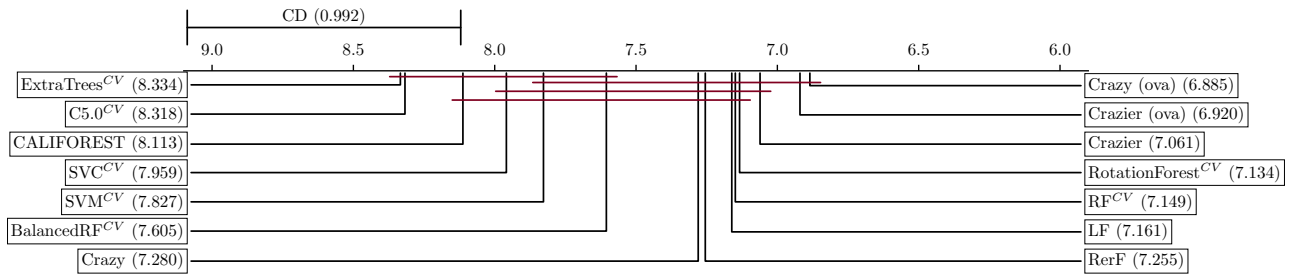


(a) Kappa

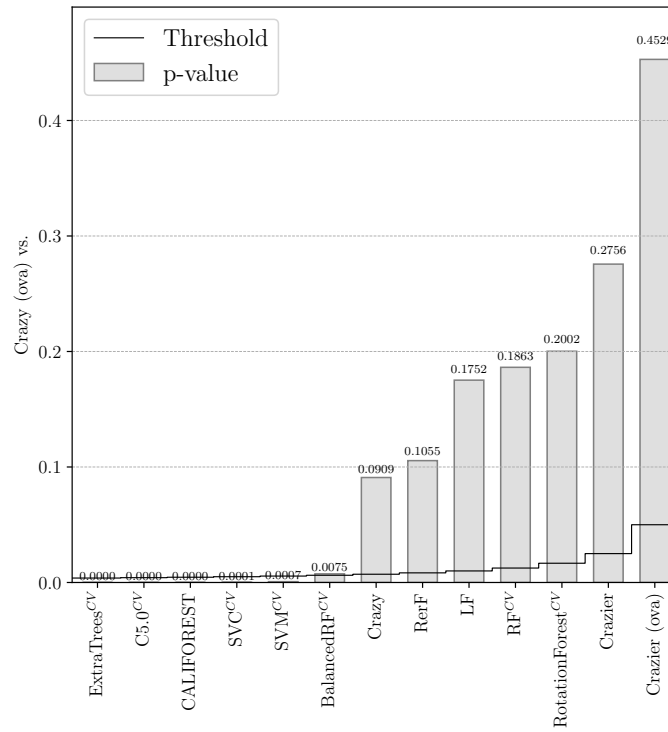


(b) MCC

Figure 13: Nemenyi test results for the best classification methods for the Kappa and MCC metrics.



Nemenyi test

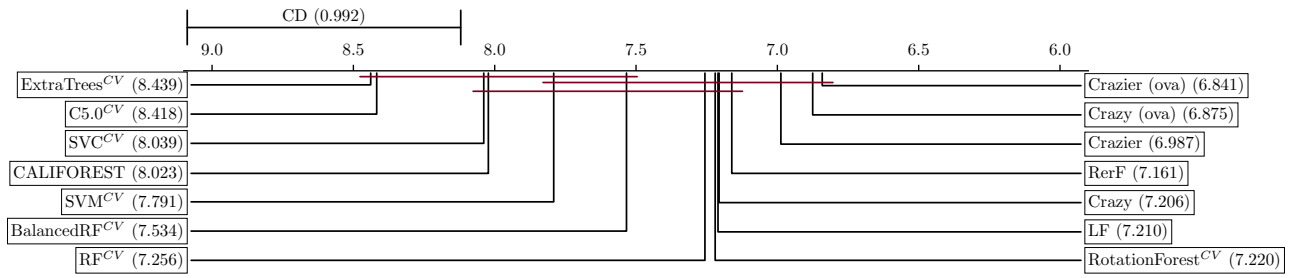


Holm test

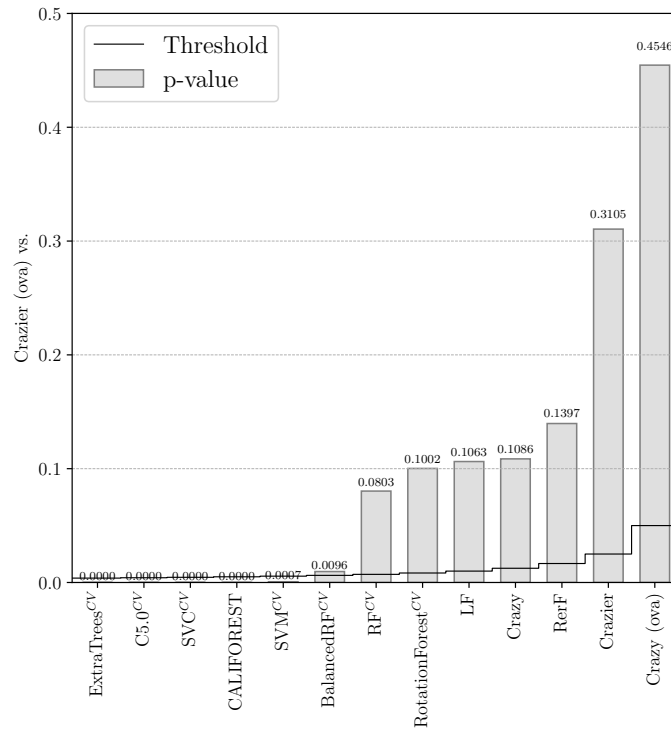


Wilcoxon test

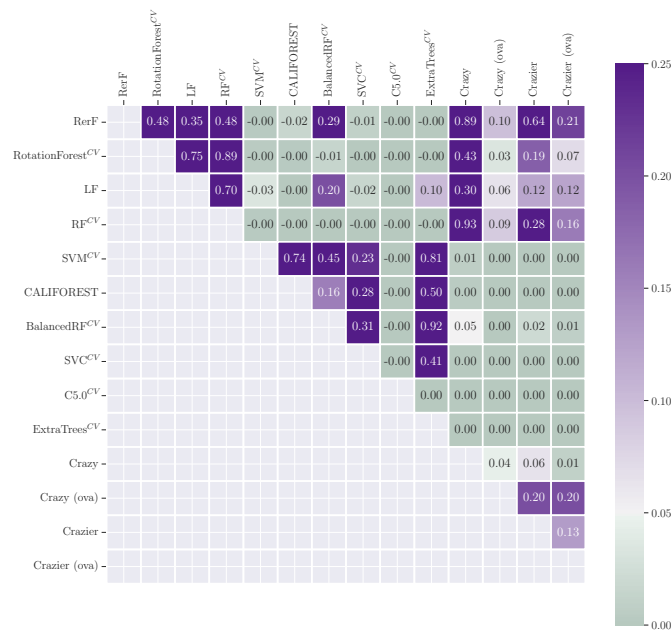
Figure 14: Nemenyi, Holm, and Wilcoxon tests results for the ten best classification methods for the Kappa metric.



Nemenyi test

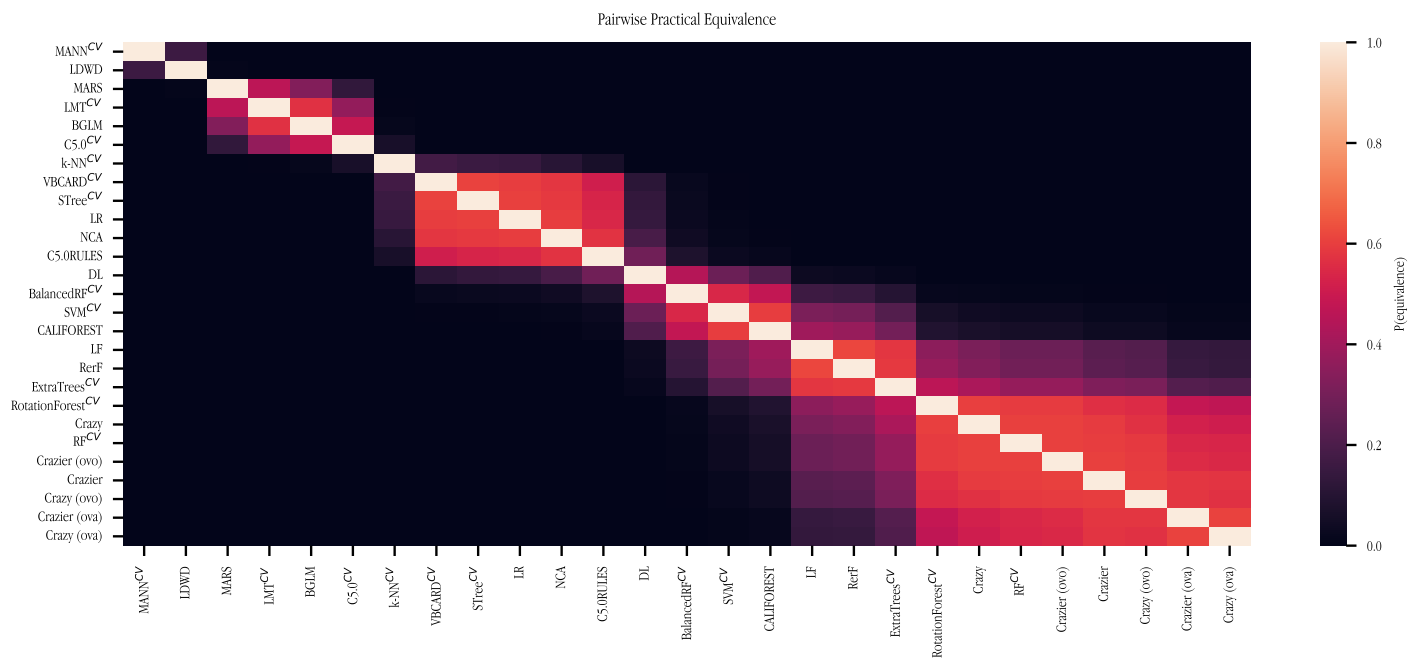


Holm test

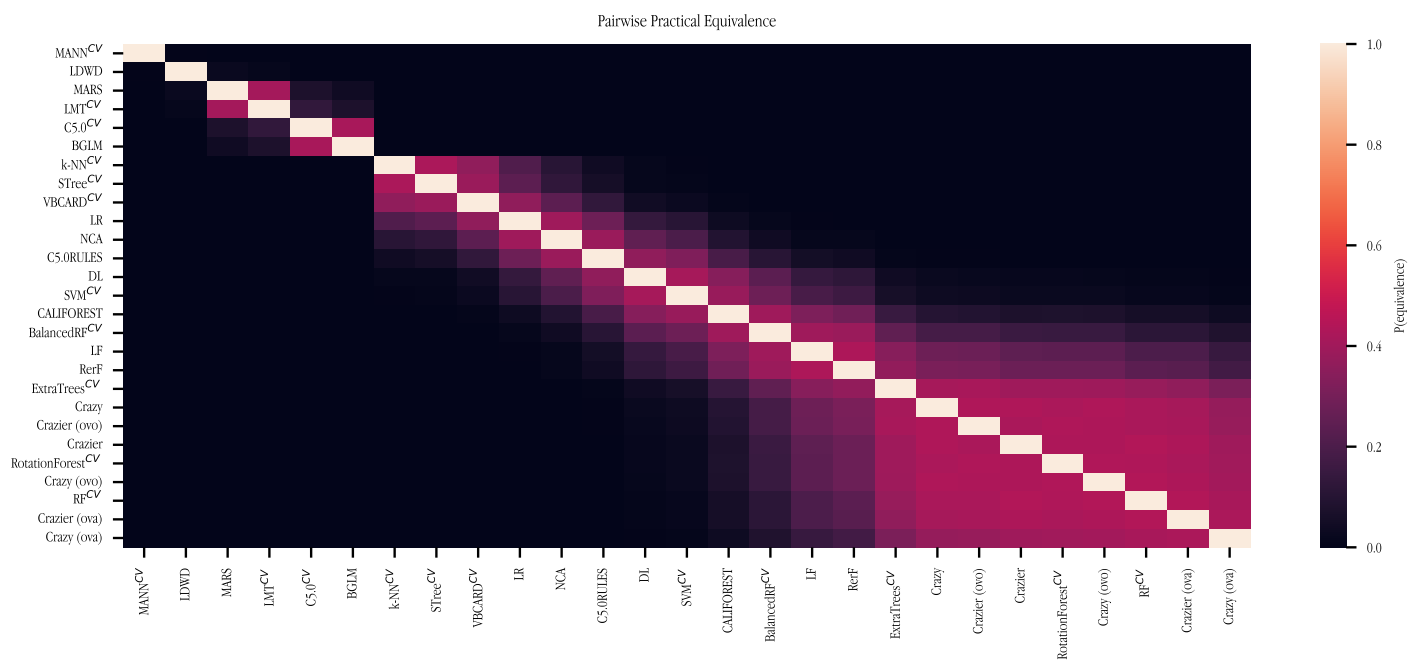


Wilcoxon test

Figure 15: Nemenyi, Holm, and Wilcoxon tests results for the ten best classification methods for the MCC metric.

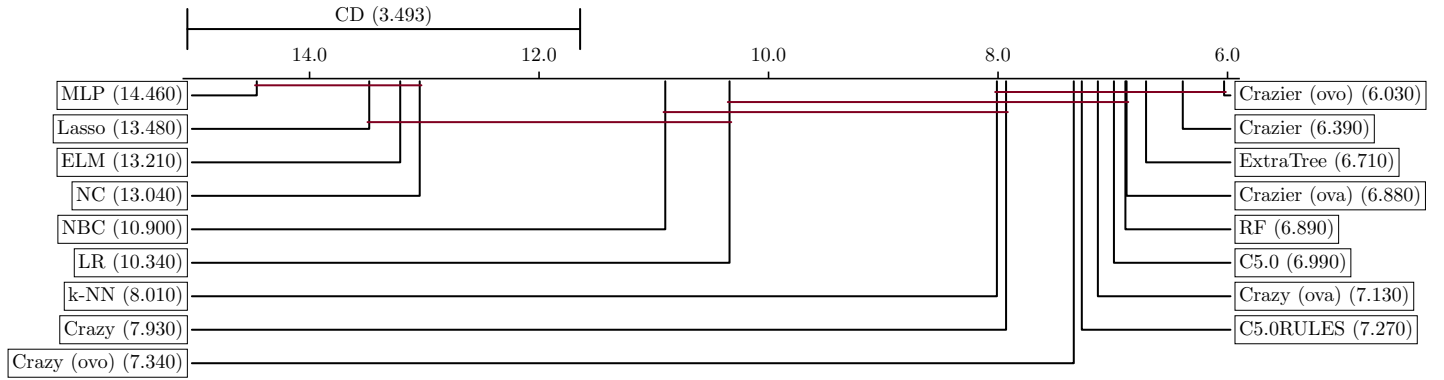


Kappa

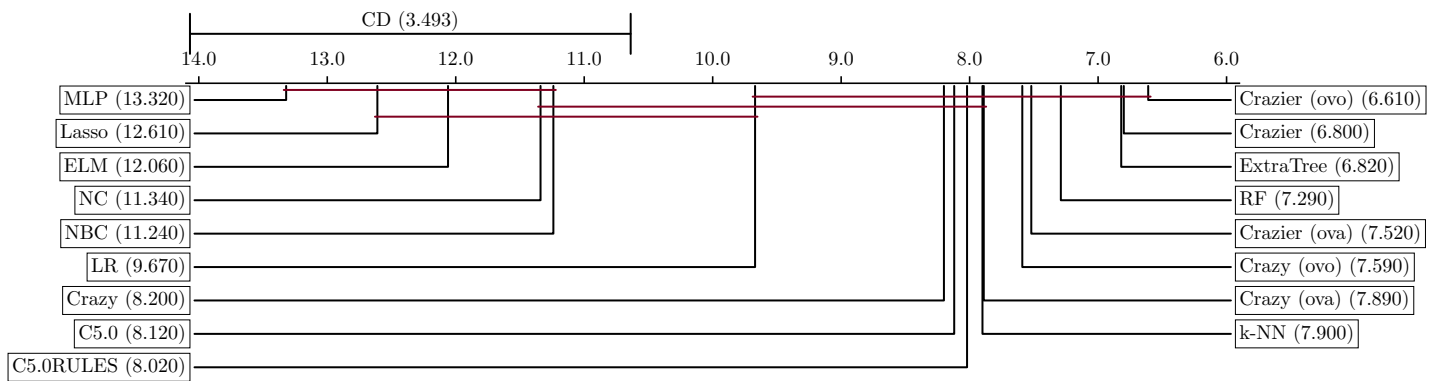


MCC

Figure 16: Pairwise practical equivalence tests results for the ten best classification methods for the Kappa and MCC metrics using ROPE analysis.

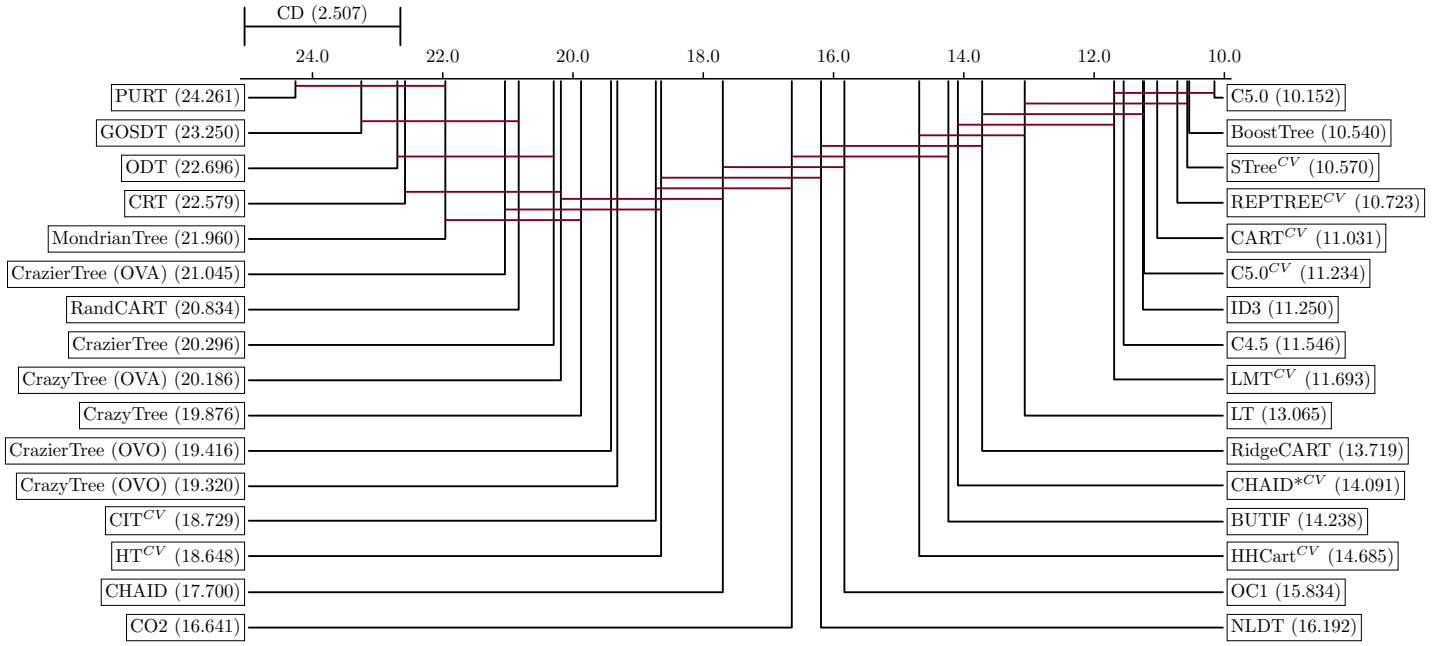


(a) Kappa

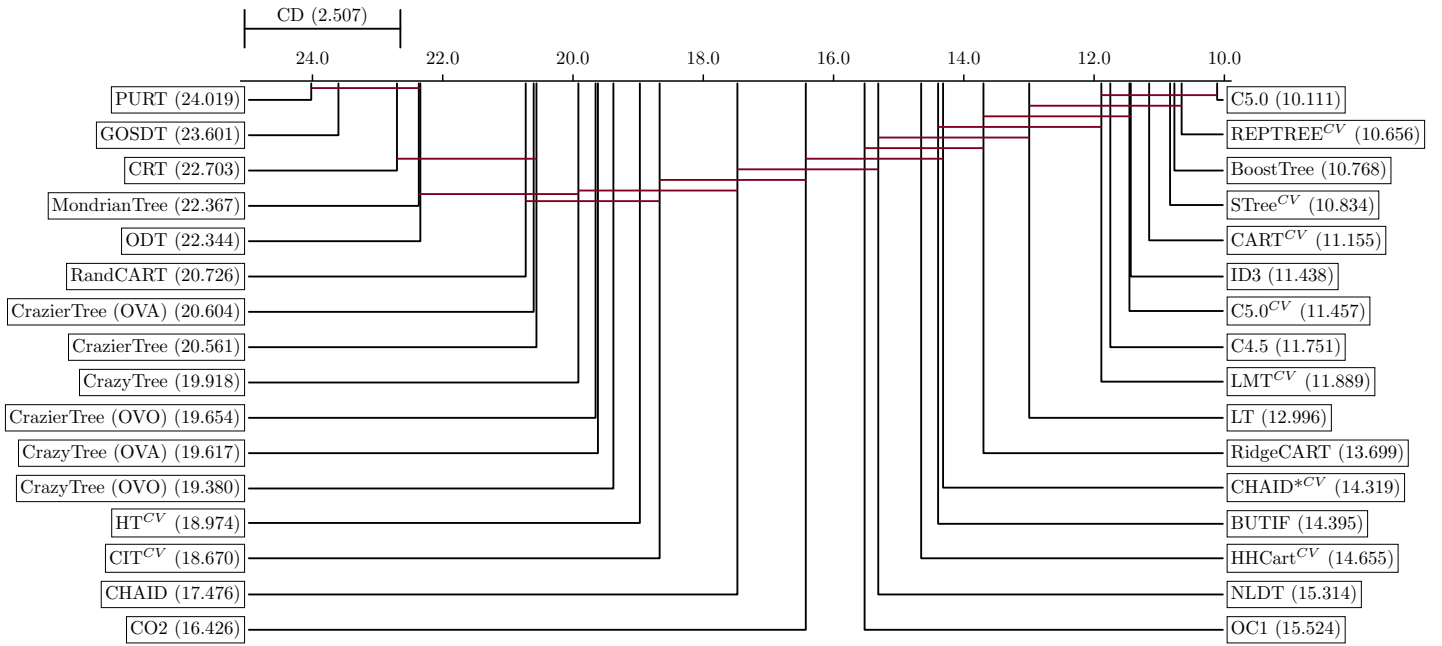


(b) MCC

Figure 17: Nemenyi test results for the best classification methods for large datasets for the Kappa and MCC metrics.



(a) Kappa



(a) MCC

Figure 18: Nemenyi test results for the different decision trees for the Accuracy, Kappa, and MCC metrics.

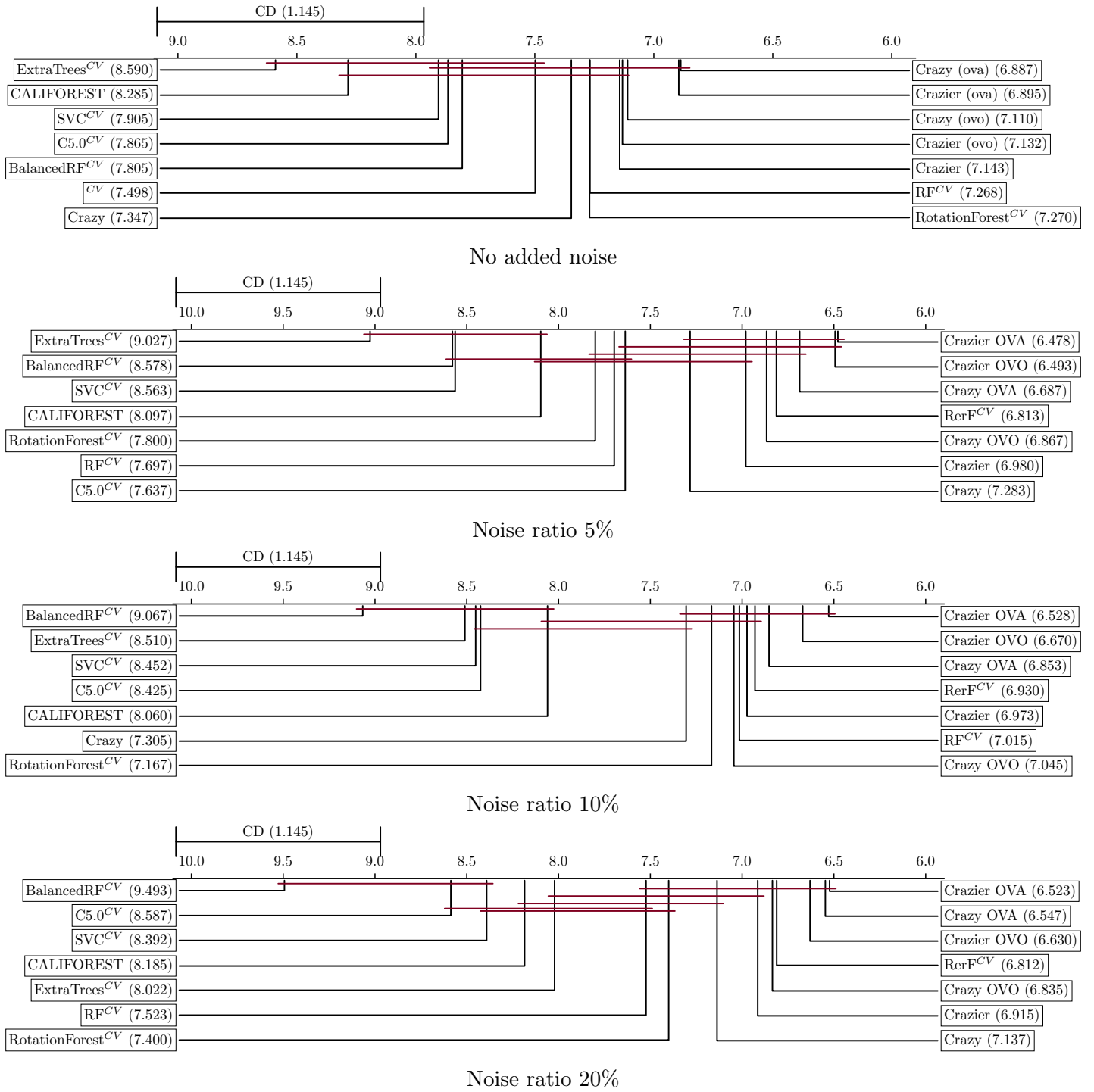


Figure 19: Nemenyi test results for the ten best methods for the three ratios of added noise the Kappa metric.

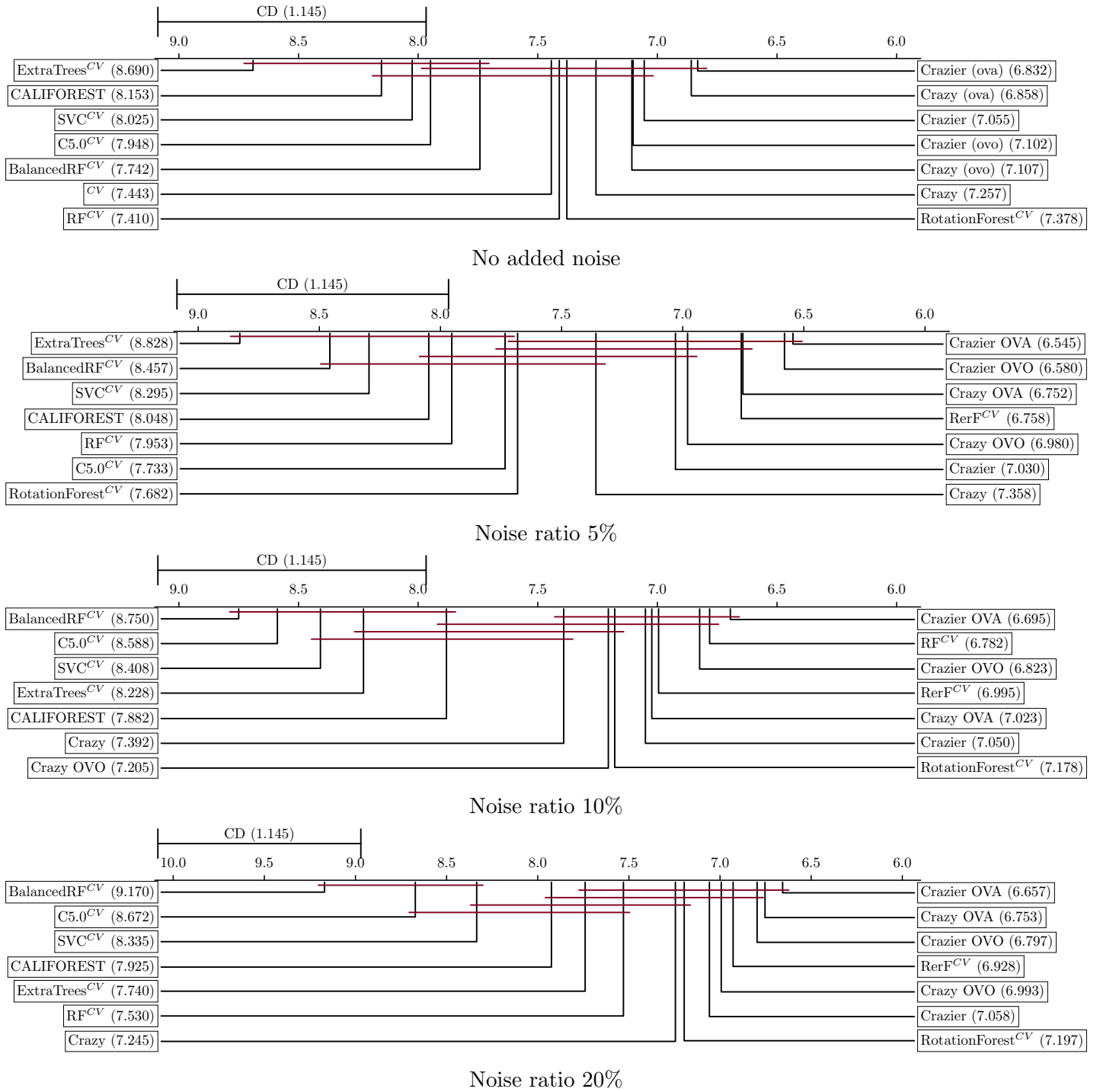


Figure 20: Nemenyi test results for the ten best methods for the three ratios of added noise the MCC metric.

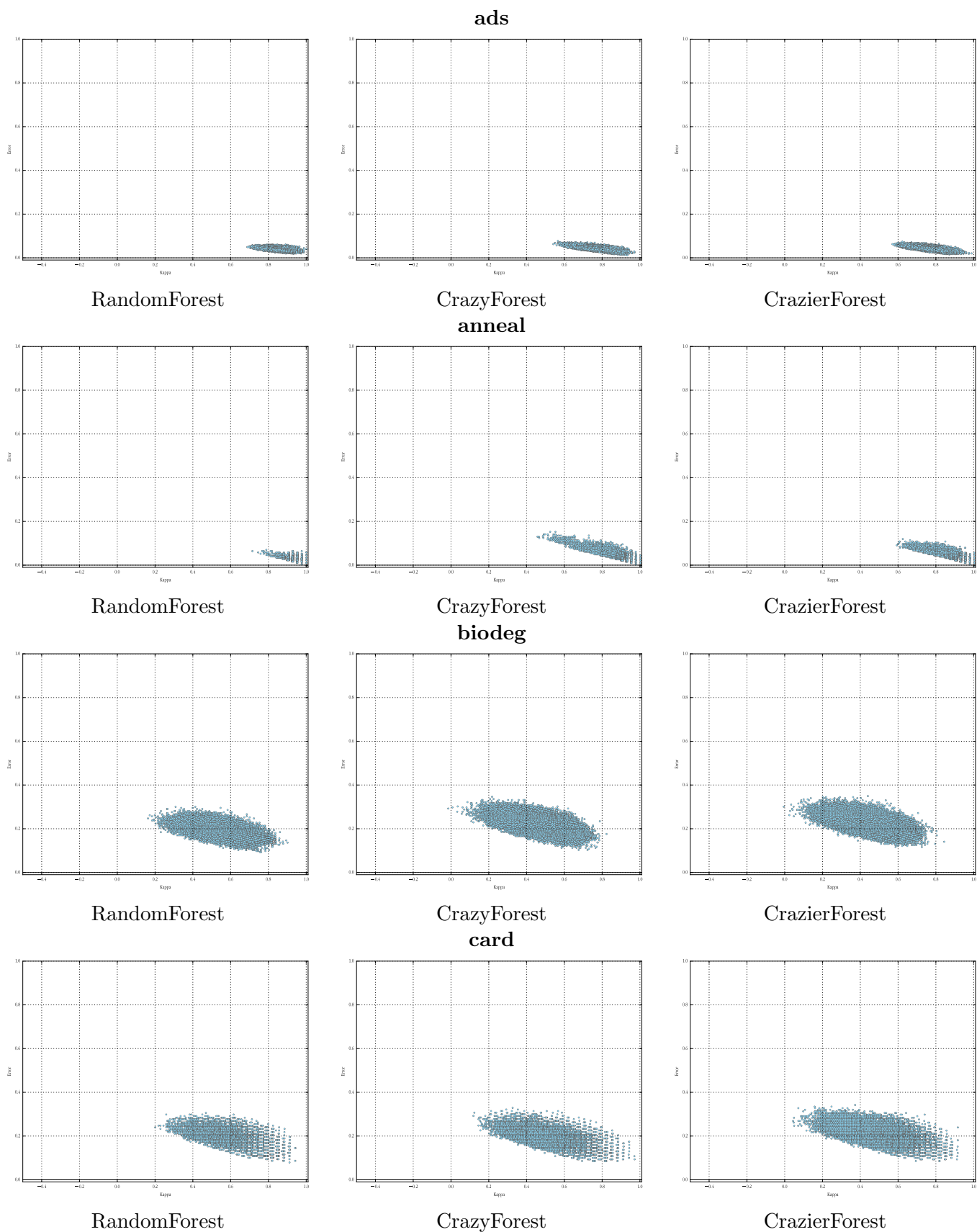


Figure 21: κ -error diagrams for RandomForest, CrazyForest, and CrazierForest methods.

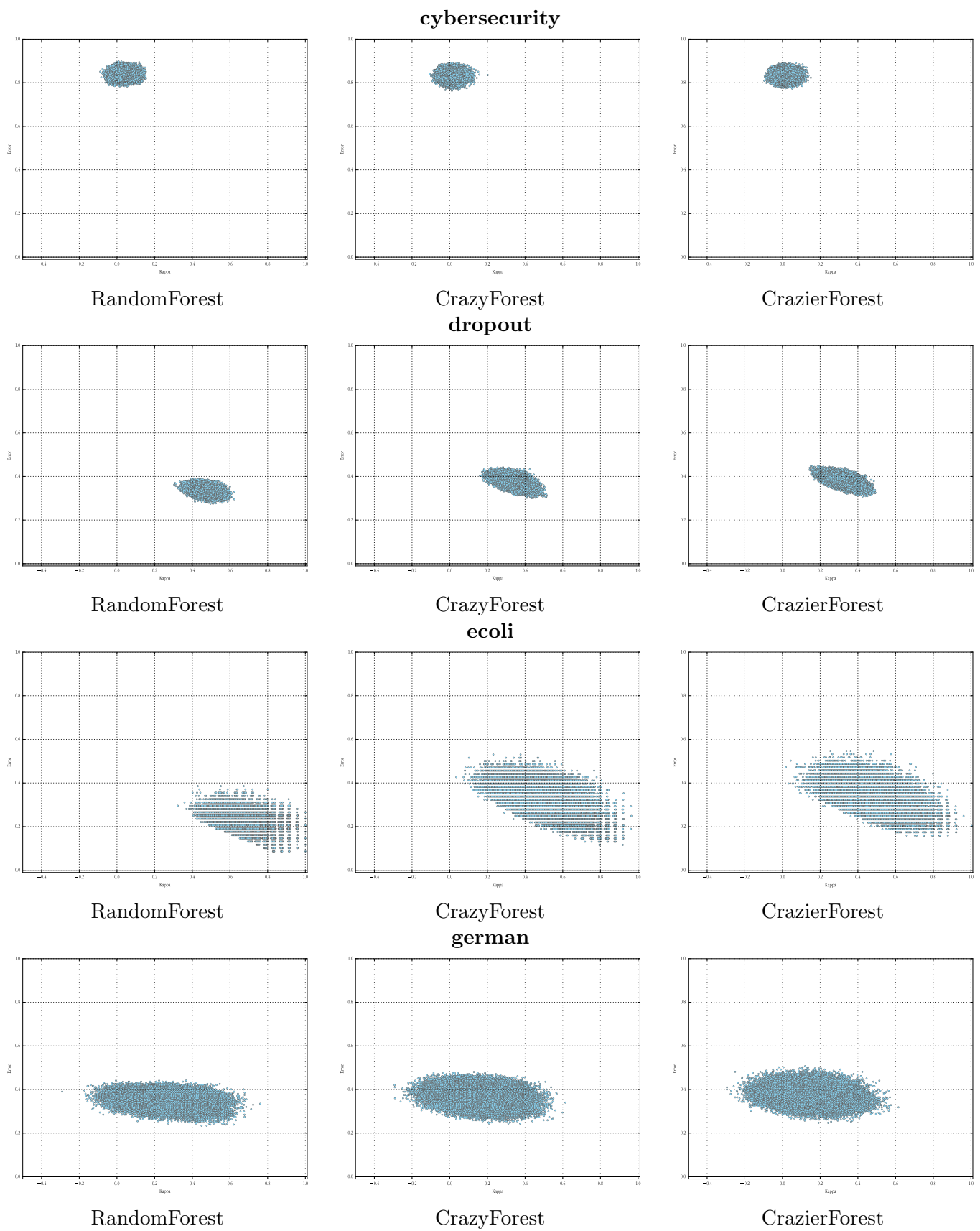


Figure 22: κ -error diagrams for RandomForest, CrazyForest, and CrazierForest methods.

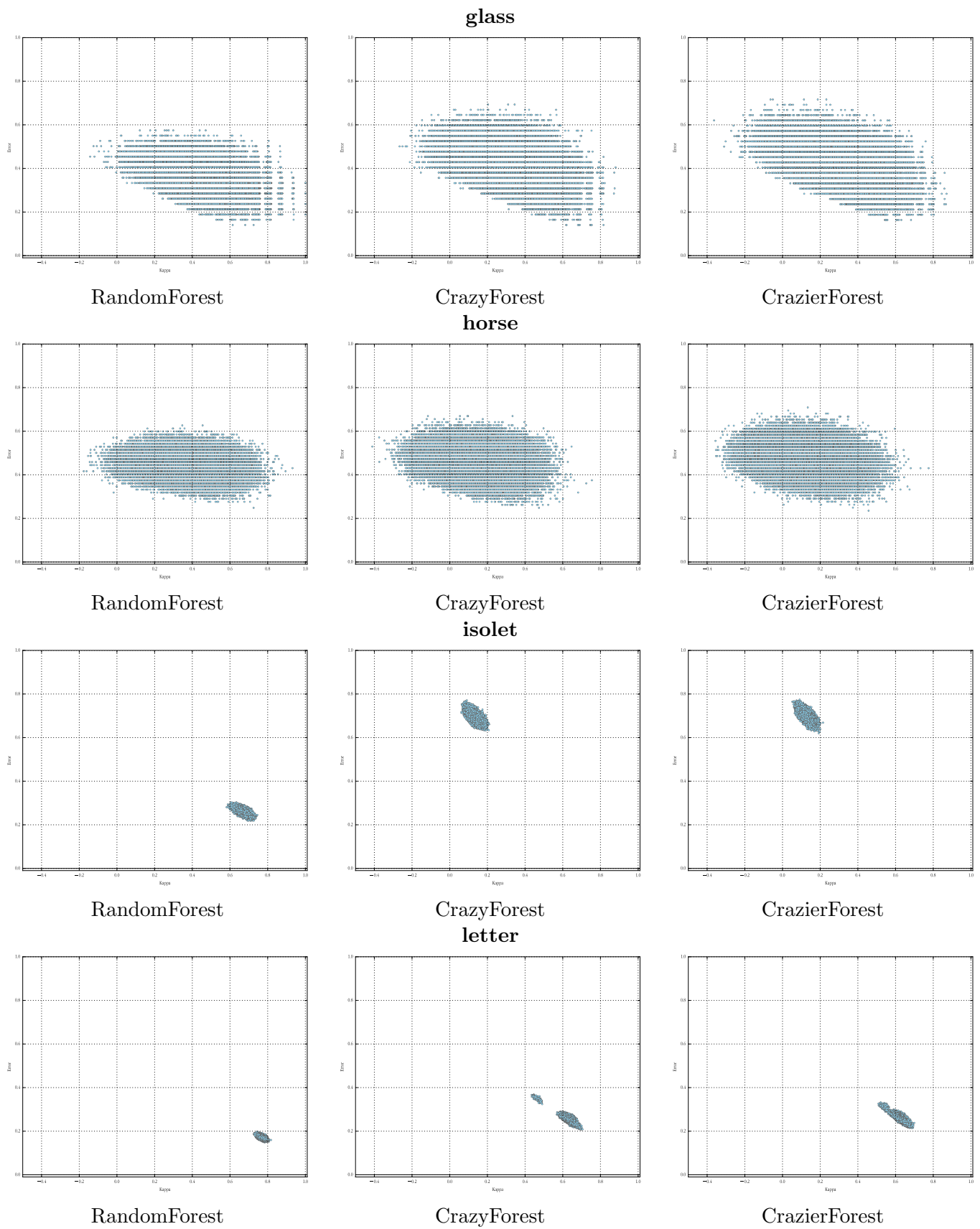


Figure 23: κ -error diagrams for RandomForest, CrazyForest, and CrazierForest methods.

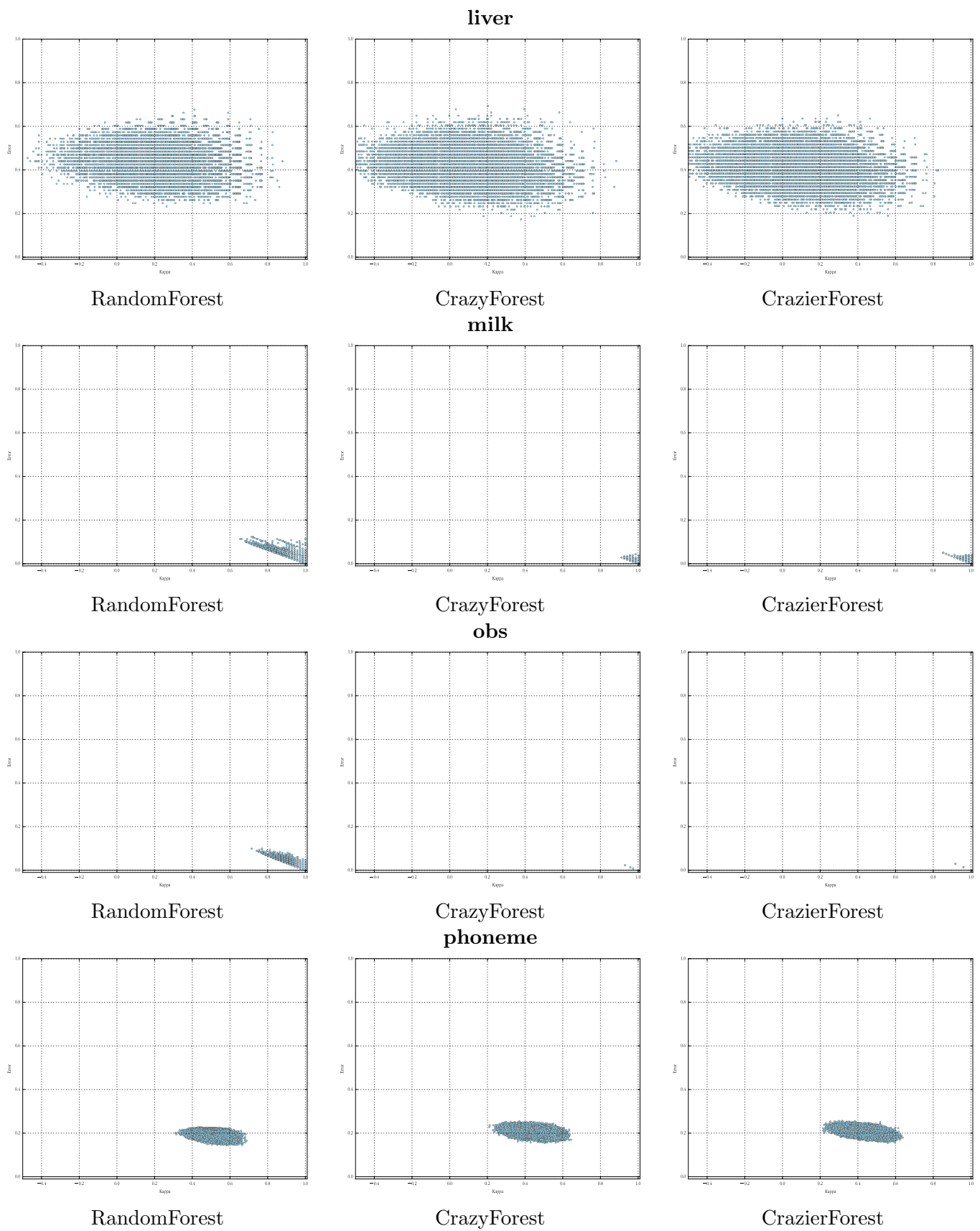


Figure 24: κ -error diagrams for RandomForest, CrazyForest, and CrazierForest methods.

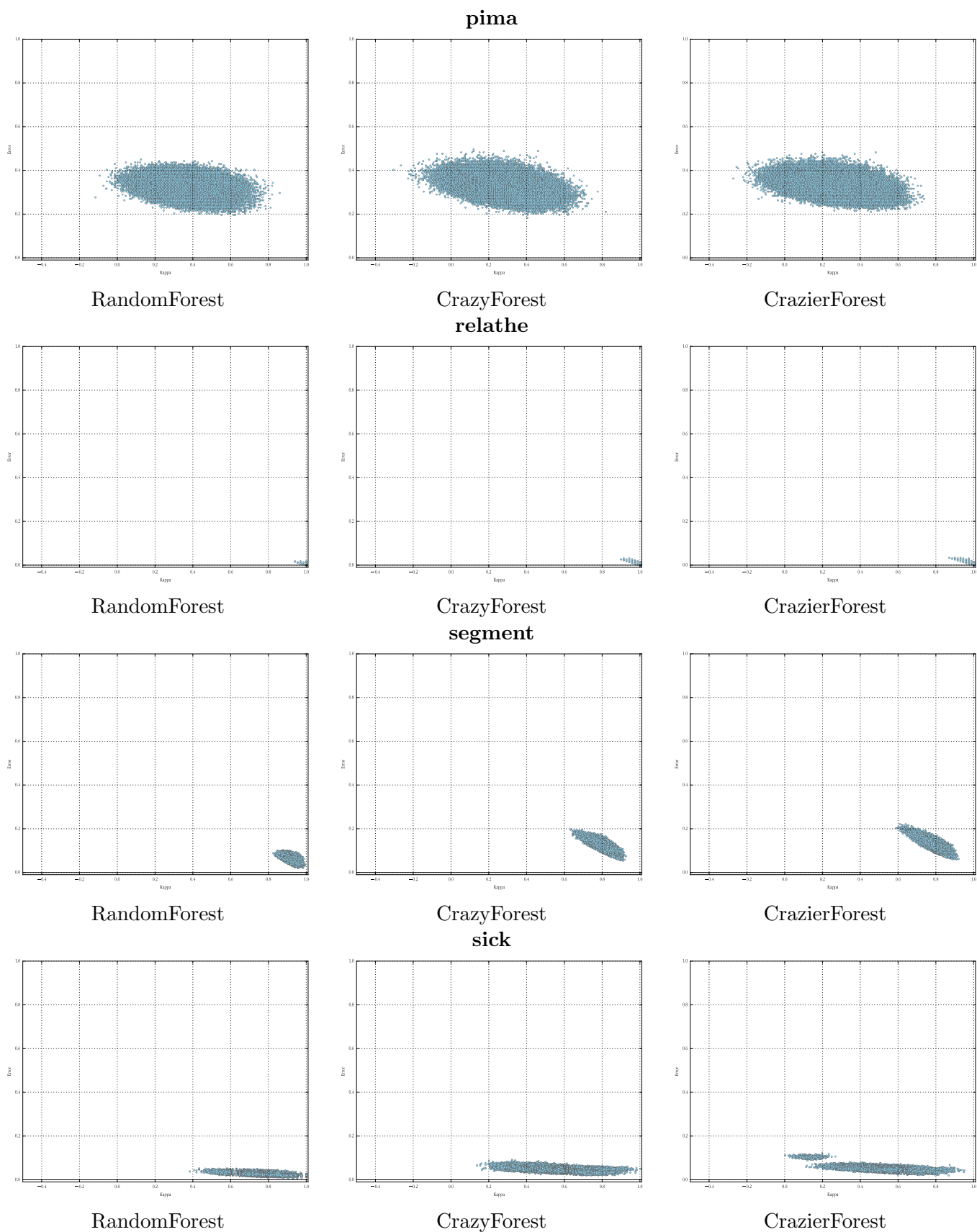


Figure 25: κ -error diagrams for RandomForest, CrazyForest, and CrazierForest methods.

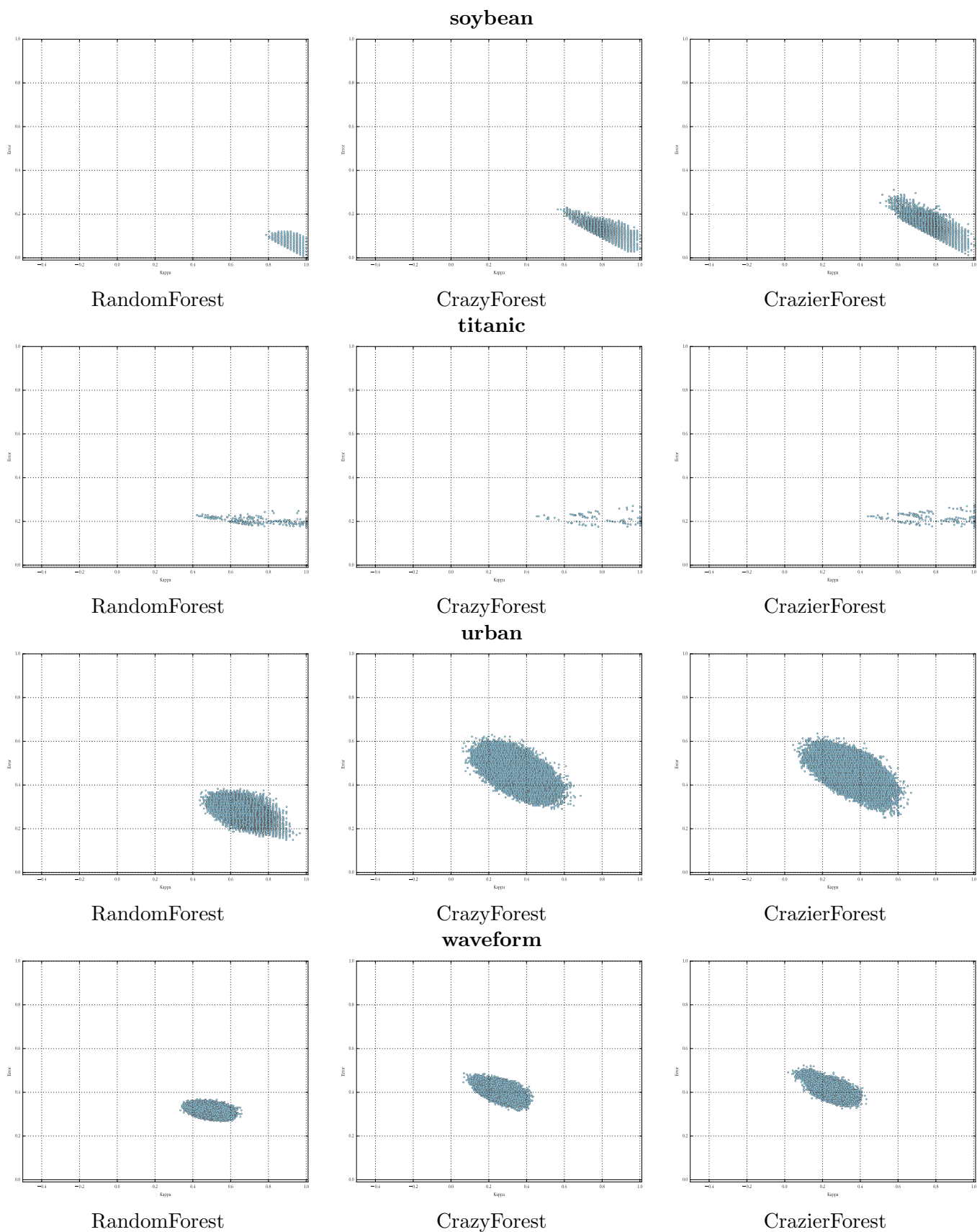


Figure 26: κ -error diagrams for RandomForest, CrazyForest, and CrazierForest methods.

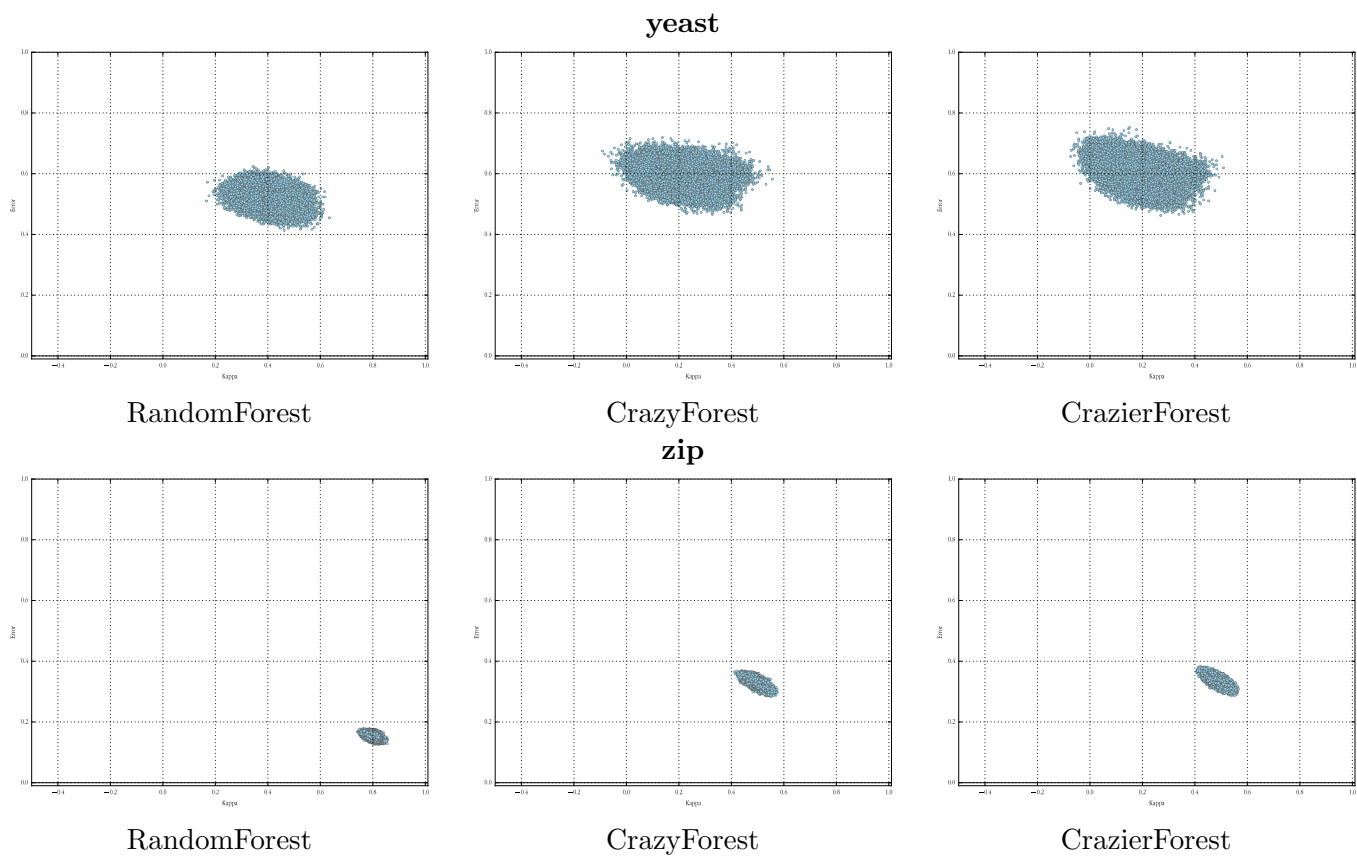
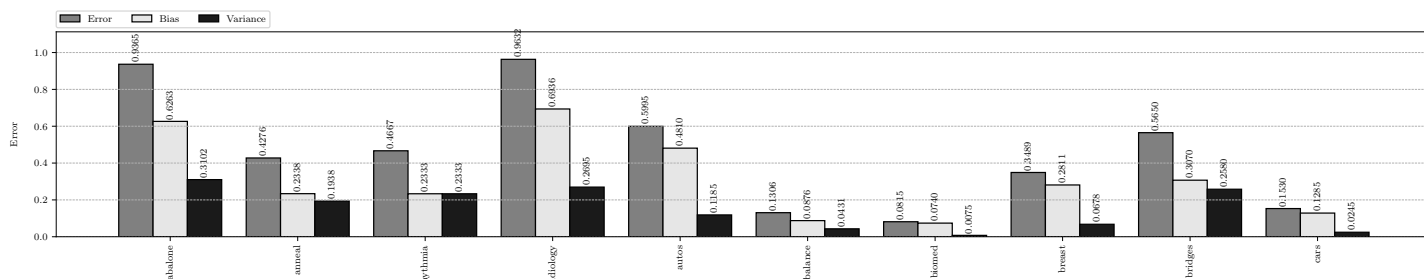
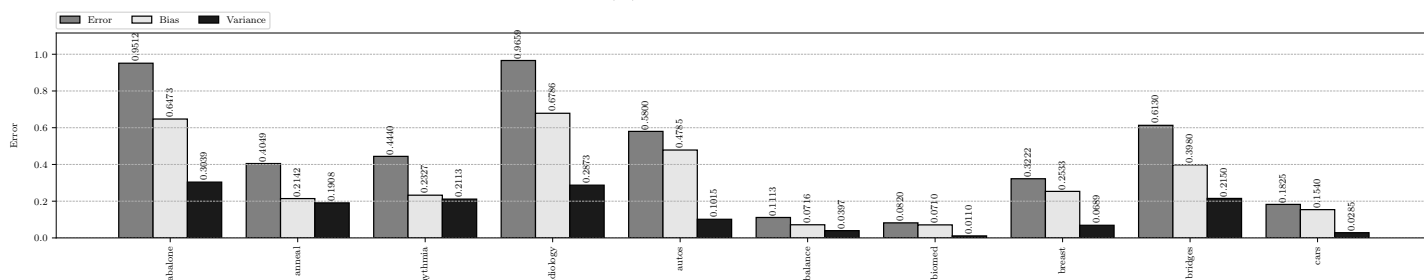


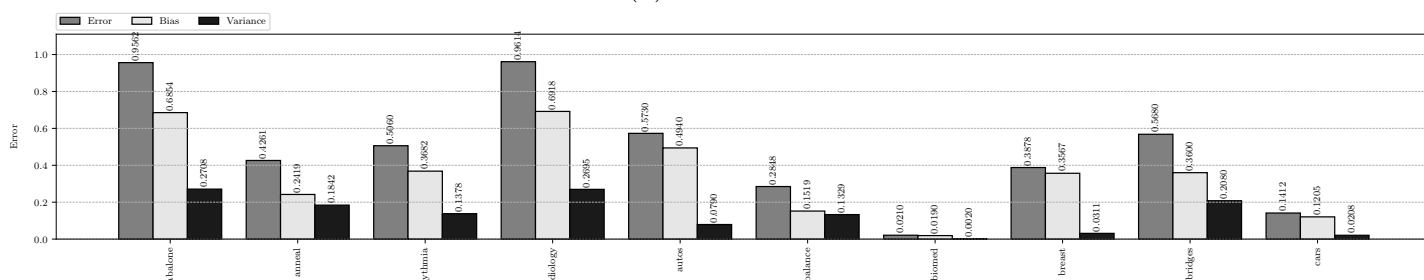
Figure 27: κ -error diagrams for RandomForest, CrazyForest, and CrazierForest methods.



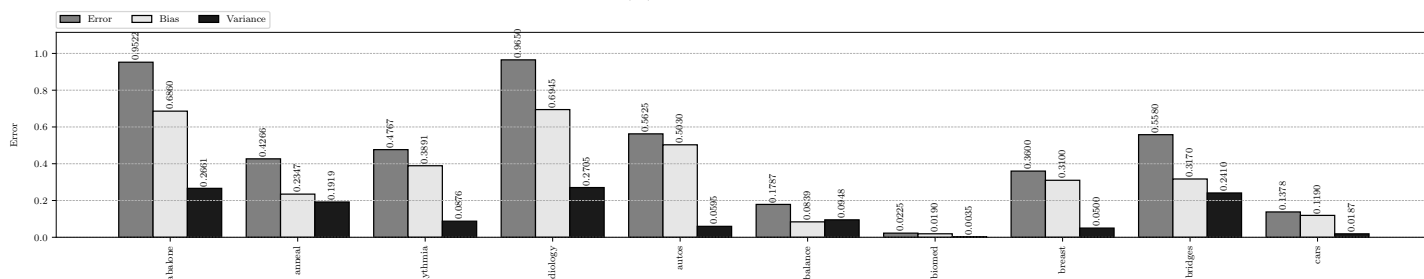
(a) RandomForest



(b) ExtraTrees

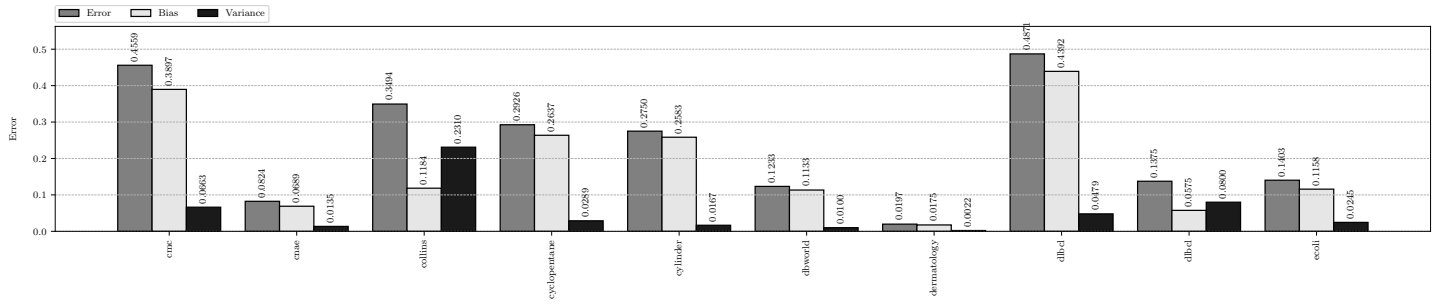


(a) CrazyForest

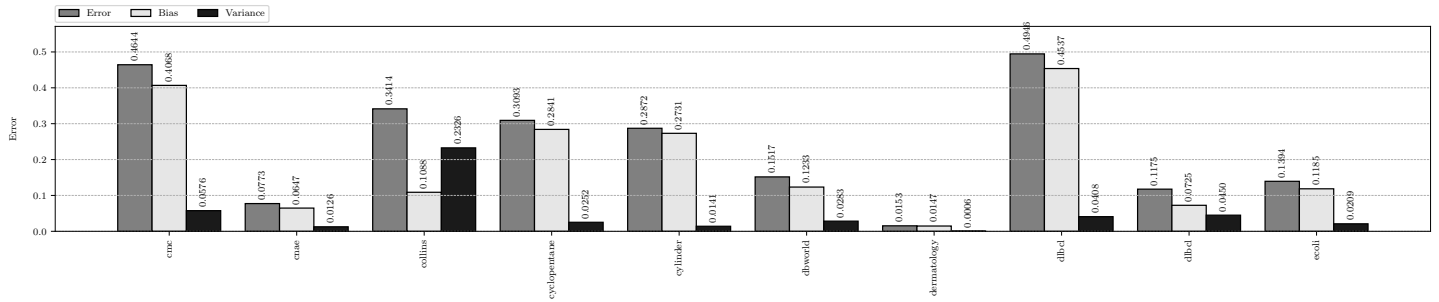


(a) CrazierForest

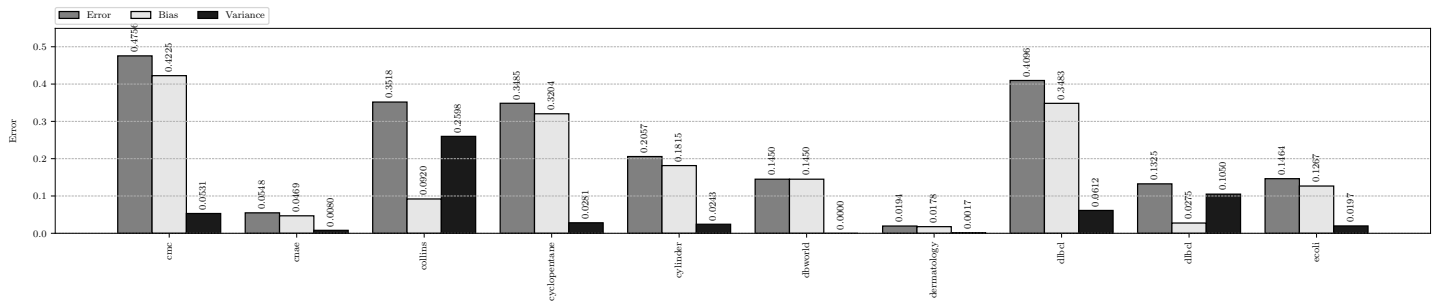
Figure 28: Bias-variance decomposition for RandomForest, ExtraTrees, CrazyForest, and CrazierForest methods using Breiman's method.



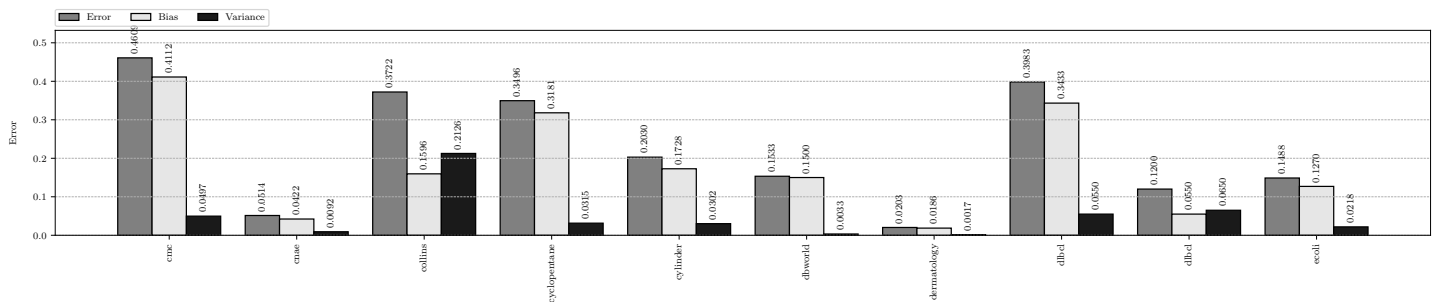
(a) RandomForest



(b) ExtraTrees

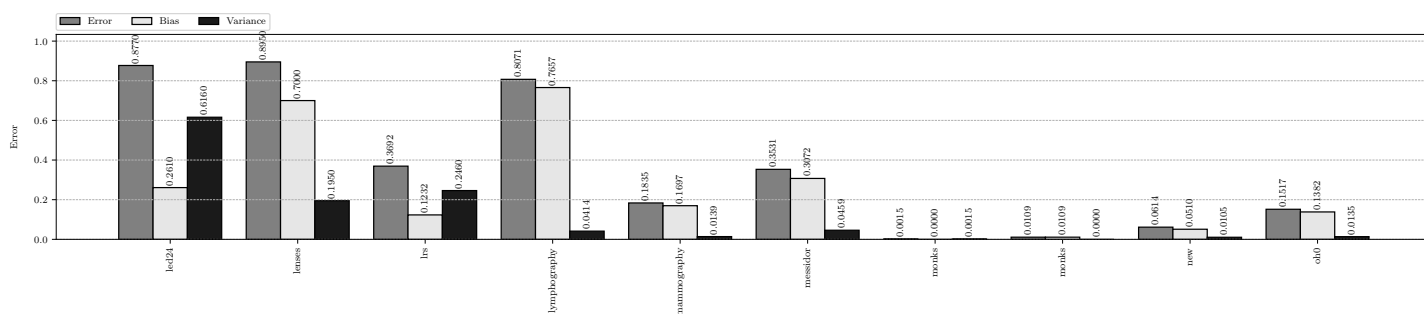


(a) CrazyForest

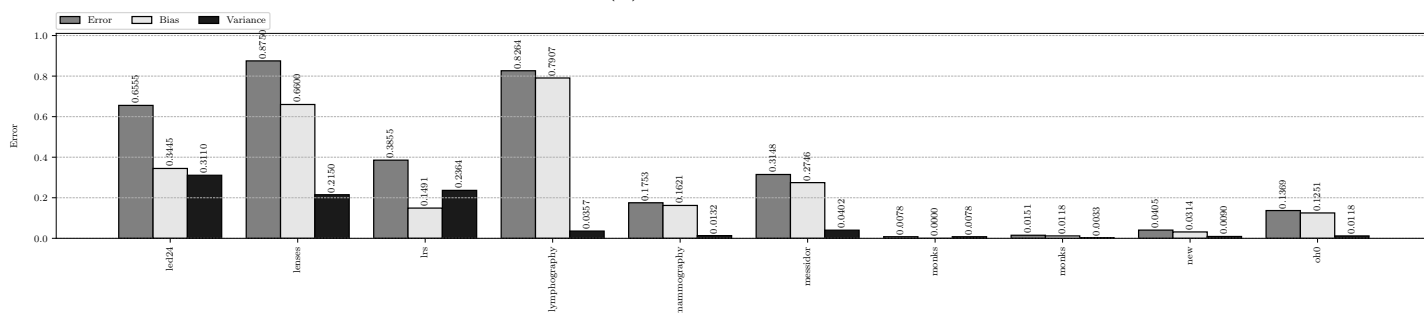


(a) CrazierForest

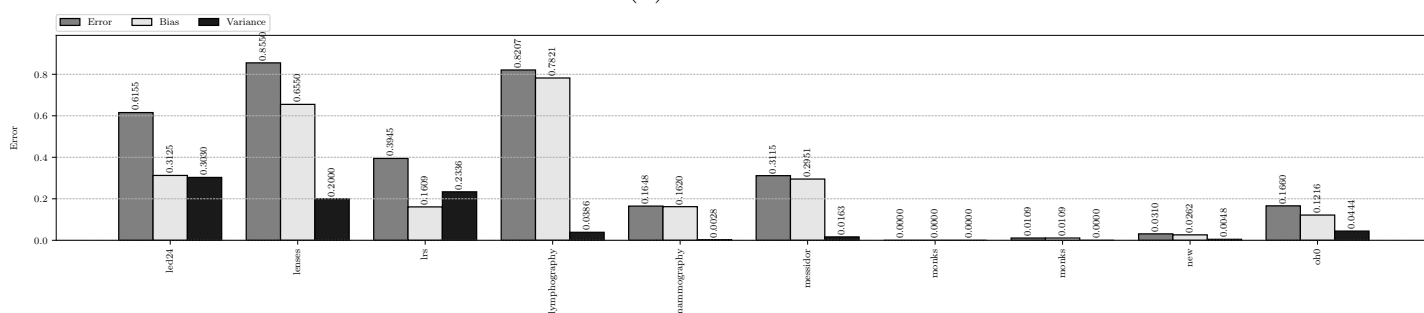
Figure 29: Bias-variance decomposition for RandomForest, ExtraTrees, CrazyForest, and CrazierForest methods using Breiman's method (continuation).



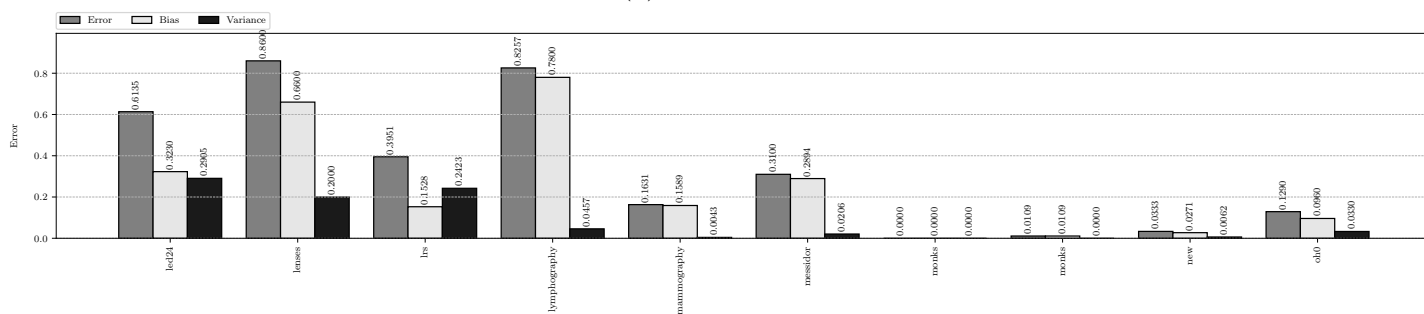
(a) RandomForest



(b) ExtraTrees

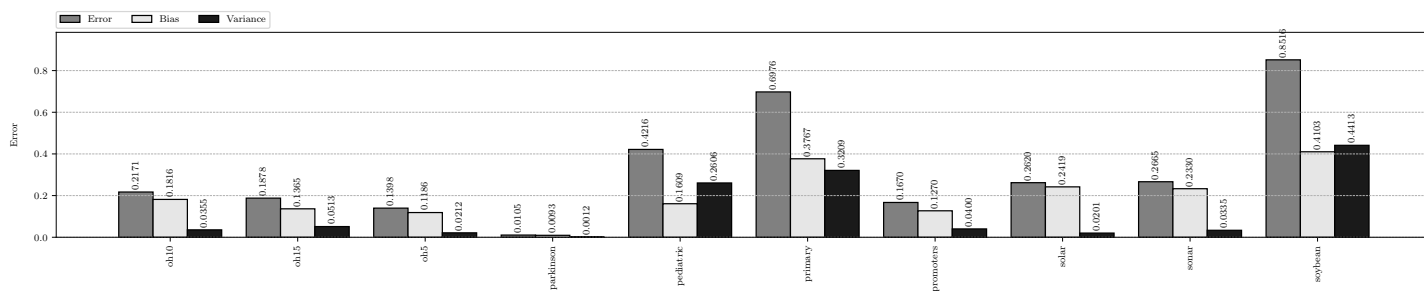


(a) CrazyForest

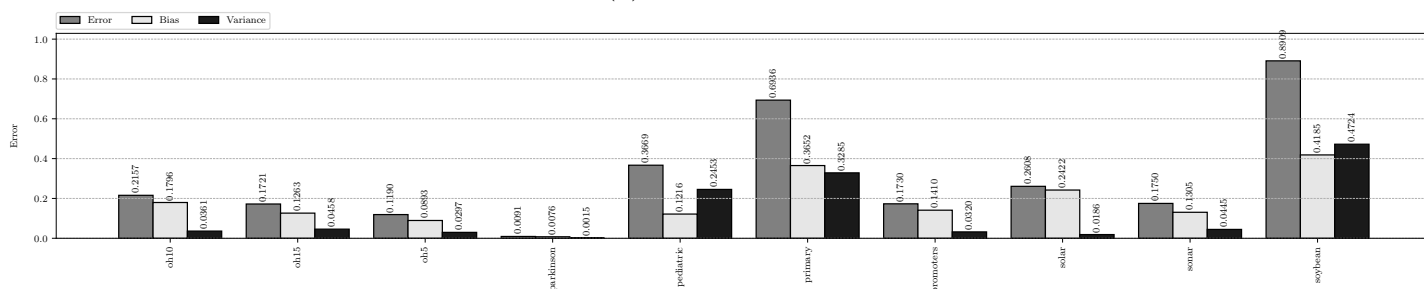


(a) CrazierForest

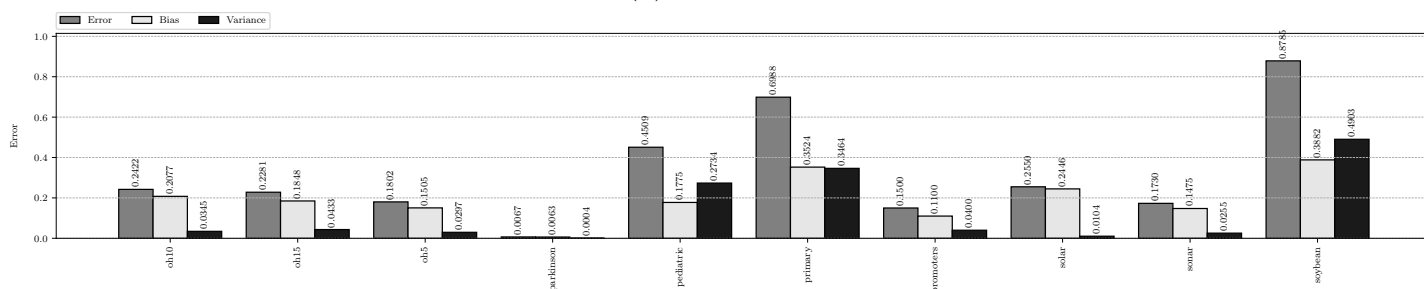
Figure 30: Bias-variance decomposition for RandomForest, ExtraTrees, CrazyForest, and CrazierForest methods using Breiman's method (continuation).



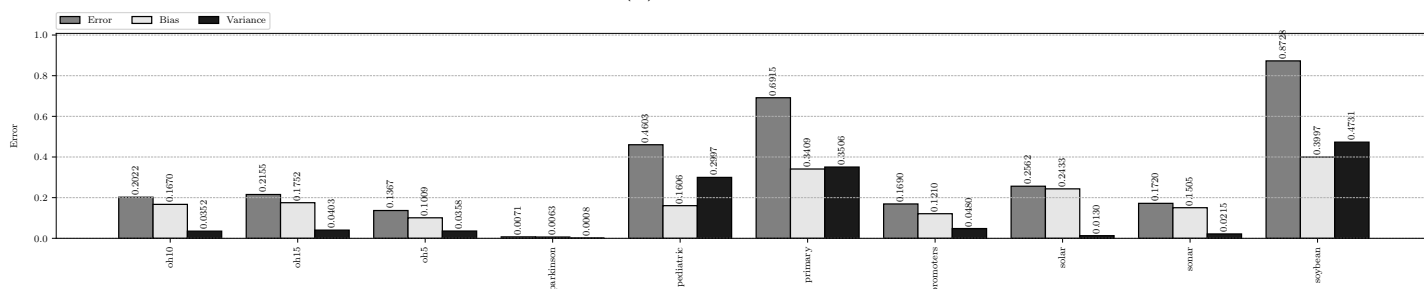
(a) RandomForest



(b) ExtraTrees

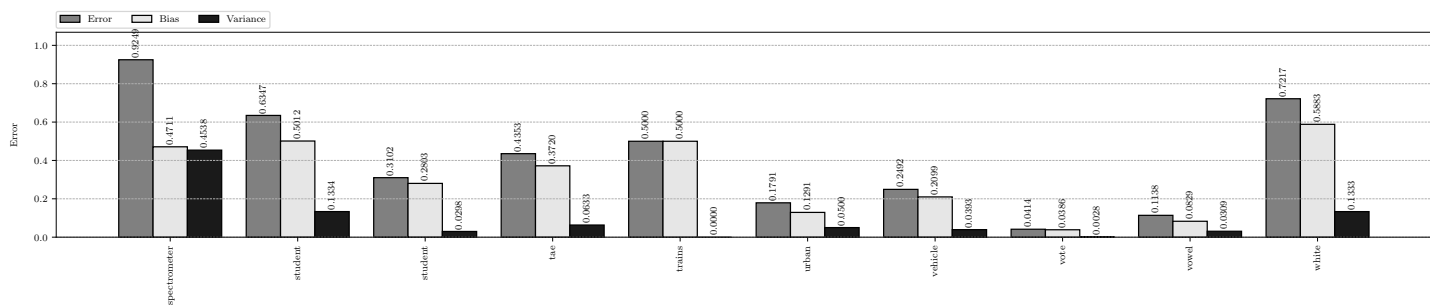


(a) CrazyForest

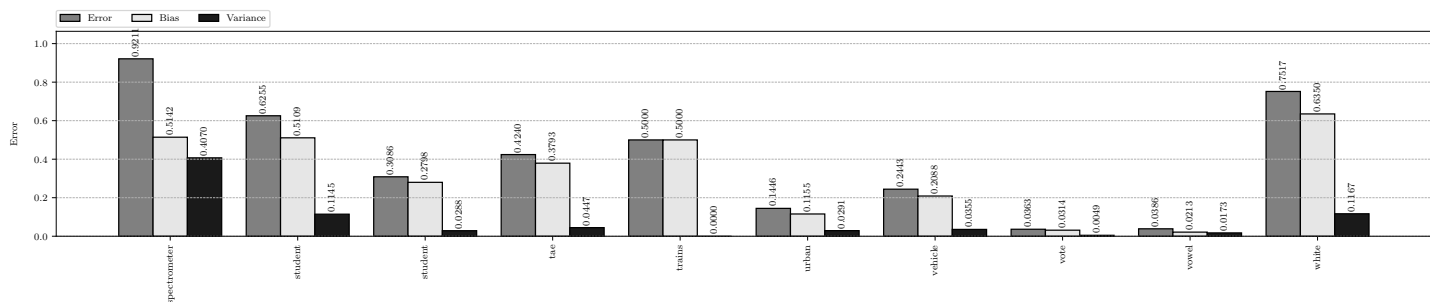


(a) CrazierForest

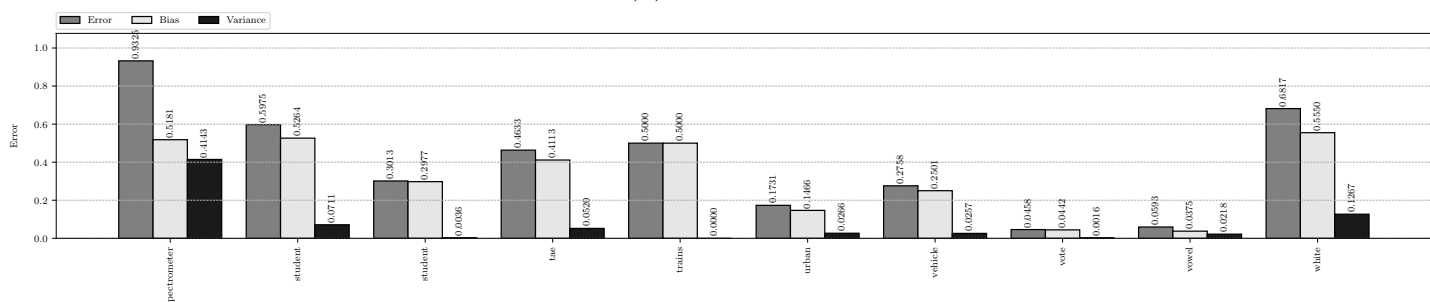
Figure 31: Bias-variance decomposition for RandomForest, ExtraTrees, CrazyForest, and CrazierForest methods using Breiman's method (continuation).



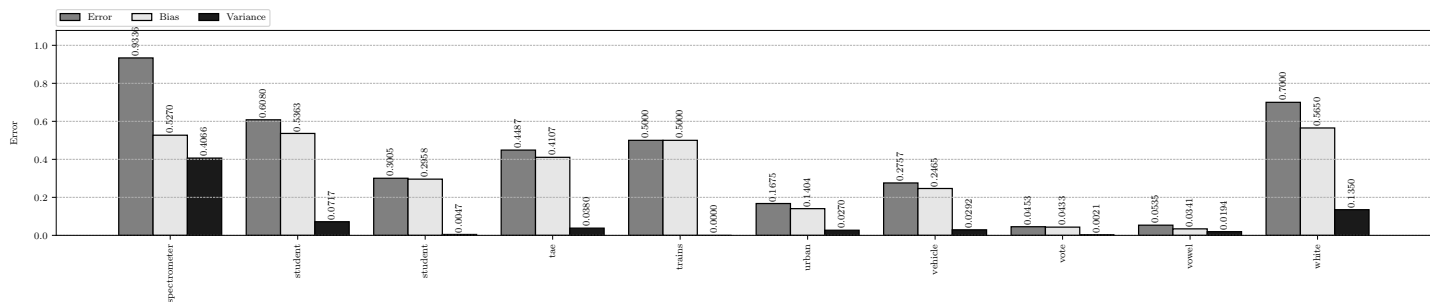
(a) RandomForest



(b) ExtraTrees



(a) CrazyForest



(a) CrazierForest

Figure 32: Bias-variance decomposition for RandomForest, ExtraTrees, CrazyForest, and CrazierForest methods using Breiman's method (continuation).

3 Detailed results

Table 3: Detailed results for BalancedRF

Dataset	F1-macro	Kappa	MCC
abalone	0.1031	0.0434	0.0446
abalone19	0.5277	0.0070	0.0227
accelerometer	0.6291	0.0913	0.1814
ads	0.7658	0.4552	0.5243
advanced-iot	0.9997	0.9996	0.9996
AID.1431	0.4702	-0.0542	0.0000
AID.1431_KlekotaRothFingerprinter	0.4495	-0.0815	0.0000
AID.1431_MACCSFingerprinter	0.4273	-0.1294	0.0000
AID.1878	0.5490	0.0966	0.0976
AID.602330	0.5239	0.0298	0.0398
AID.652128	0.4424	0.0857	0.1139
AID1284red	0.6644	0.3043	0.3246
AID1608Mored	0.5796	0.0929	0.1386
AID1608red	0.5386	0.0360	0.0622
AID362red	0.4724	-0.0101	0.0000
AID456red	0.4486	-0.0060	0.0000
AID721mored	0.5950	0.1818	0.1890
AID721red	0.8000	0.5263	0.5976
aids	0.8295	0.6572	0.6590
air_pollution	0.1394	-0.0057	0.0000
alcohol	0.5846	0.5241	0.5463
all-aml	1.0000	1.0000	1.0000
anneal	0.7234	0.4837	0.5758
antivirus	1.0000	1.0000	1.0000
anuran-f-b	0.6689	0.0814	0.2060
anxiety	0.0922	-0.0219	0.0000
apple-quality	0.8454	0.6900	0.6909
arcene	0.6926	0.3396	0.3852
arrhythmia	0.6492	0.4568	0.4996
auction	0.7712	0.4572	0.5336
audiology	0.3782	0.3652	0.3772
audit-risk	0.9275	0.8445	0.8549
autism-adolescent	0.9141	0.8136	0.8281
autism-adult	0.9825	0.9645	0.9651
autism-child	0.9665	0.9308	0.9330
autos	0.8853	0.8684	0.8742
avila	0.8056	0.8245	0.8326
balance	0.5970	0.5188	0.5455
bankruptcy	0.8619	0.6875	0.7237
biodeg	0.8293	0.6584	0.6585
biomed	0.9114	0.8073	0.8228
body-perf	0.7245	0.6308	0.6322
brain-tumor	0.5074	0.0148	0.0148
breast-cancer	0.5227	0.0421	0.0453
breast-cancer-ma	0.6309	0.2414	0.2609
breast-tissue	0.7179	0.6733	0.6869
bridges	0.4082	0.2683	0.3237
cad	1.0000	1.0000	1.0000
cancer	0.9382	0.8747	0.8764
cancer-uae	0.3193	-0.0420	0.0000
car-insurance	0.7626	0.5211	0.5251
cardiotocography-nsp	0.7693	0.6366	0.6568
cardiovascular	0.7387	0.4698	0.4699
cargo2k	0.9975	0.9962	0.9962
cars	0.7542	0.6285	0.6514
Continued on next page			

Dataset	F1-macro	Kappa	MCC
cervical-B	0.6587	0.1923	0.2874
cervical-H	0.6966	0.2127	0.3450
cervical-S	0.6305	0.2010	0.2470
children-anemia	0.8069	0.8616	0.8627
chrom211%	0.4887	-0.0016	0.0000
churn	0.6952	0.3726	0.3886
cjs	0.9280	0.9133	0.9142
ckd	1.0000	1.0000	1.0000
clave	0.6310	0.6008	0.6072
cll_sub_111	0.7090	0.4894	0.5058
cmc	0.5289	0.3065	0.3091
cnae-9	0.9006	0.8854	0.8857
codon_usage	0.7180	0.8298	0.8305
coil20	0.9933	0.9927	0.9927
college	0.8921	0.7806	0.7841
collins	0.7023	0.6946	0.6973
colon-tumor	0.7500	0.4000	0.5000
colposcopies-1	0.6650	0.3290	0.3300
colposcopies-2	0.6650	0.3290	0.3300
colposcopies-4	0.5685	0.1369	0.1369
colposcopies-5	0.5450	0.0823	0.0885
colposcopies-c	0.6954	0.3696	0.3894
column-2c	0.7925	0.5792	0.5850
column-3c	0.7790	0.6890	0.7033
coupon	0.6904	0.3808	0.3809
covtypeCD	0.8160	0.5704	0.6269
covtypeT	0.7477	0.3845	0.4753
crabs	0.8583	0.8000	0.8081
crowdsourced	0.7328	0.7544	0.7665
cryotherapy	0.7404	0.3721	0.4781
cultivars	0.4514	0.4839	0.4893
cybersecurity	0.1938	0.0323	0.0323
cyclopentane	0.7360	0.4706	0.4719
cylinder-bands	0.7497	0.4871	0.4993
datatrieve	0.3500	-0.1471	0.0000
dbworld	1.0000	1.0000	1.0000
default	0.7200	0.3885	0.4186
dementia	1.0000	1.0000	1.0000
depressed	0.5199	0.0366	0.0391
dermatology	0.9429	0.9325	0.9325
desharnais	0.5465	0.1667	0.2226
df_final	0.7690	0.6098	0.6385
DIA	0.6889	0.3778	0.3778
diagnosis	0.8286	0.6571	0.6571
diamonds	0.9777	0.9771	0.9775
diamonds_all	0.7756	0.6876	0.6813
dishonest	1.0000	1.0000	1.0000
dlbcl-nih	0.4286	-0.1351	0.0000
dlbcl-stanford	0.8333	0.6154	0.6667
drebin	0.9073	0.8054	0.8146
dropout	0.6803	0.5655	0.5685
ecoli	0.6769	0.7180	0.7240
ecoliCP-IM	0.9543	0.9043	0.9085
ecoliM	0.7791	0.5237	0.5569
ecoliMU	0.7489	0.3740	0.4796
ecoliOM	0.5538	0.0571	0.0898
ecommerce	0.2038	-0.0645	0.0000
euthyroid	0.7281	0.3921	0.4457
Continued on next page			

Dataset	F1-macro	Kappa	MCC
fakenews	0.4922	-0.0157	0.0000
fbis-wc	0.7749	0.8030	0.8045
finance	0.7438	0.4872	0.4876
financial-risk	0.5869	0.7045	0.7100
flags	0.3953	0.4444	0.4648
forest	0.8753	0.8678	0.8718
gas	0.9929	0.9913	0.9913
gastrointestinal	0.5433	0.3293	0.3481
gender	0.4448	0.1530	0.1555
german	0.6394	0.2777	0.2788
gestures	0.9138	0.8847	0.8851
gina	0.9397	0.8790	0.8793
gisette	0.9559	0.9114	0.9119
glass	0.8896	0.7565	0.7868
glass-g2	0.8091	0.6129	0.6181
glassBWFP	0.9529	0.9014	0.9058
glassBWNFP	0.7698	0.5161	0.5394
glassContainers	0.7969	0.5075	0.5831
glassNW	0.8568	0.6736	0.7126
glassTableware	0.6857	0.1852	0.3194
GlaucomaM	0.7978	0.5824	0.5955
gli_85	0.7895	0.5000	0.5774
glioma	0.8333	0.7059	0.7500
glioma-grade	0.7637	0.5219	0.5274
green	0.4553	-0.0870	0.0000
gsalc	0.8333	0.7353	0.7576
haberman	0.6718	0.3119	0.3425
hapt	0.7905	0.9190	0.9191
har	0.9738	0.9697	0.9698
health-activity	0.2774	0.0476	0.0554
heart	0.7284	0.4553	0.4567
heart-c	0.9067	0.7964	0.8134
heart-failure	0.9366	0.8722	0.8731
heart-quantum	0.8432	0.6774	0.6864
hepatitis	0.8077	0.5455	0.6124
higher	0.2238	0.0888	0.0938
hinselmann	0.2857	-0.3636	0.0000
hitters	0.9373	0.8745	0.8745
hiv1-proteasa	0.7924	0.5699	0.5835
hiva	0.5812	0.0760	0.1265
horse	0.5799	0.3455	0.3459
hotel-reservartions	0.8731	0.7294	0.7276
hr	0.4939	-0.0115	0.0000
htru2	0.8112	0.5781	0.6172
hypothyroid	0.5229	0.3121	0.4292
immuno-therapy	0.8000	0.5263	0.5976
ionosphere	0.8288	0.6379	0.6574
iris	0.9333	0.8993	0.9054
irish	0.8984	0.7961	0.7967
isolet	0.9027	0.8945	0.8949
jm1	0.6009	0.1928	0.2005
fvowels	0.9680	0.9670	0.9670
kc1-class-level-numericdefect	0.2667	0.2155	0.2649
kc1-class-level-top5percentDF	0.3750	-0.1250	0.0000
kc2	0.6589	0.2986	0.3160
kdc-4007	0.7963	0.7583	0.7586
kidney	0.2077	0.0088	0.0096
kidney-disease	0.9743	0.9474	0.9487
Continued on next page			

Dataset	F1-macro	Kappa	MCC
la2s-wc	0.8679	0.8551	0.8570
labor	0.8537	0.6667	0.7071
leaf	0.6954	0.6909	0.6953
led24	0.6062	0.5455	0.5518
lenses	0.5714	0.5000	0.6124
letter	0.9131	0.9100	0.9100
linkage1%	0.8789	0.7210	0.7346
loan	0.9776	0.9549	0.9552
lrs	0.6420	0.7036	0.7081
lung_discrete	1.0000	1.0000	1.0000
lymphography	0.7307	0.5447	0.5797
lymphoma2	0.6027	0.6842	0.7120
machine-failure	0.9033	0.8050	0.8067
magic04	0.8339	0.6675	0.6679
malware	0.9599	0.9165	0.9197
mammography	0.7173	0.4346	0.4346
marketing	0.7256	0.4135	0.4467
mba	0.4598	0.2094	0.2551
mental-disorders	0.6789	0.5556	0.5717
messidor	0.6595	0.3179	0.3191
meter-A	0.8730	0.7143	0.7454
meter-B	0.6124	0.3571	0.4089
meter-C	1.0000	1.0000	1.0000
meter-D	0.9583	0.9234	0.9274
mfeat-fac	0.9609	0.9556	0.9558
mfeat-fou	0.8207	0.8000	0.8007
mfeat-kar	0.9661	0.9611	0.9614
mfeat-mor	0.6717	0.6389	0.6393
mfeat-pix	0.9902	0.9889	0.9889
mfeat-zer	0.7768	0.7500	0.7509
mice-prot	0.9641	0.9576	0.9586
milk	1.0000	1.0000	1.0000
mines	0.5523	0.4486	0.4501
mobile	0.9576	0.9537	0.9539
monks-1	0.8181	0.6362	0.6362
monks-3	0.8095	0.6091	0.6190
mushroom	0.9803	0.9606	0.9607
music	0.5272	0.3879	0.3918
MUT_ci300400a_cdk_ECFP2	0.7298	0.4543	0.4596
MUT_ci300400a_cdk_ECFP4	0.7712	0.5406	0.5424
MUT_ci300400a_cdk_ECFP6	0.7392	0.4783	0.4785
MUT_ci300400a_cdk_ESTATE	0.7193	0.4380	0.4386
MUT_ci300400a_cdk_EXTENDED	0.7464	0.4886	0.4928
MUT_ci300400a_cdk_FCFP2	0.7479	0.4893	0.4957
MUT_ci300400a_cdk_FCFP4	0.7325	0.4605	0.4650
MUT_ci300400a_cdk_FCFP6	0.7587	0.5165	0.5174
MUT_ci300400a_cdk_MACCS	0.7736	0.5443	0.5471
MUT_ci300400a_cdk_PUBCHEM	0.7602	0.5179	0.5204
MUT_ci300400a_cdk_STANDARD	0.7186	0.4359	0.4372
MUT_ci300400a_rdkit_descriptors	0.7544	0.5078	0.5089
myocardial	0.3117	0.1781	0.2309
naticusdroid	0.9375	0.8749	0.8749
nci9	0.7895	0.8000	0.8281
neo	0.6837	0.1862	0.2936
new-thyroid	0.9462	0.9000	0.9056
new-thyroidT	0.7070	0.3913	0.4108
NHANES_age_prediction	0.9491	0.8929	0.8981
nursery	0.8708	0.8899	0.8938
Continued on next page			

Dataset	F1-macro	Kappa	MCC
obesity	0.9205	0.9059	0.9067
obs	0.8660	0.8055	0.8187
oh0-wc	0.9340	0.9211	0.9217
oh10-wc	0.8081	0.7844	0.7854
oh15-wc	0.8956	0.8890	0.8894
oh5-wc	0.8431	0.8136	0.8152
olive	0.8803	0.8497	0.8522
optdigits	0.9693	0.9644	0.9644
orlraws10P	1.0000	1.0000	1.0000
ozone1hr	0.5376	0.0383	0.0584
p53-mutants10%	0.4567	-0.0063	0.0000
parkinson	0.9571	0.9140	0.9142
pc1	0.6857	0.2453	0.3438
pcmac	0.5237	0.0473	0.0474
pediatric-leukemia	0.7954	0.7531	0.7586
pendigits	0.9873	0.9858	0.9859
period-10f	0.5000	0.0000	0.0000
persistence	0.7851	0.5661	0.5702
pet-adoption	0.8682	0.7347	0.7364
phishing	0.8774	0.7496	0.7547
pima	0.6939	0.3871	0.3877
pirvision	0.7485	0.5840	0.6317
placement	0.7523	0.5046	0.5047
plrx	0.4834	-0.0328	0.0000
polya	0.7354	0.4696	0.4707
post-operative	0.8163	0.5714	0.6325
pred-tox_mutagen_ref-desc	0.5299	0.0588	0.0598
prestige	0.8192	0.6727	0.7115
primary-tumor	0.2963	0.3063	0.3145
profb	0.5794	0.1511	0.1586
promoters	1.0000	1.0000	1.0000
pulsar	0.8068	0.5647	0.6076
raisin	0.8118	0.6222	0.6236
rejabatada	0.7346	0.3099	0.4282
relathe	0.9311	0.8592	0.8622
rice	0.9706	0.9411	0.9412
rocket	0.6523	0.3005	0.3046
satimage	0.9079	0.8985	0.8988
scadi	0.5161	0.4474	0.4596
schiller	0.8333	0.6087	0.6614
sclerosis	1.0000	1.0000	1.0000
secom	0.5661	0.1168	0.1268
seeds	0.9553	0.9286	0.9317
segment	0.9210	0.9039	0.9042
segmentation	0.8214	0.6370	0.6428
segmentO	0.8409	0.6304	0.6784
seismic	0.5913	0.1220	0.1634
sens-2-gram	0.6738	0.3407	0.3463
sens-3-gram	0.5723	0.1430	0.1442
sens-4-gram	0.5720	0.1409	0.1432
shoppers	0.7800	0.5354	0.5575
sick	0.7266	0.3346	0.4292
sirtuin6	1.0000	1.0000	1.0000
smarket	0.9921	0.9840	0.9841
smk.can_187	0.6333	0.2652	0.2667
smoking	0.7394	0.4702	0.4636
soil-pollution	0.1880	-0.0173	0.0000
solar-flare	0.6571	0.6736	0.6755
Continued on next page			

Dataset	F1-macro	Kappa	MCC
sonar	0.7041	0.4000	0.4082
soybean	0.9276	0.9039	0.9065
spam-detection	0.6971	0.2957	0.3762
spambase	0.8847	0.7693	0.7695
spect	0.5938	0.1860	0.1873
spectf	0.7380	0.4717	0.4759
spectrometer	0.4069	0.4456	0.4492
squash-unstored	0.8333	0.6154	0.6667
startup	0.9562	0.9086	0.9124
steel_industry	0.8640	0.8151	0.8163
stellar	0.9762	0.9445	0.9446
stock	0.8162	0.6228	0.6318
stockb	0.9565	0.9339	0.9345
streaming	0.9879	0.9758	0.9758
stress	0.8300	0.7819	0.7841
student-habits	0.2233	-0.0012	0.0000
student-lifestyle	0.3750	0.2691	0.2816
student-weekend	0.2266	0.0255	0.0262
student-workday	0.1316	-0.0189	0.0000
studentap	0.5392	0.2909	0.3021
swarm_aligned	0.8951	0.7768	0.7900
swarm_flocking	0.9283	0.8560	0.8566
tae	0.5944	0.4000	0.4027
telco-churn	0.8516	0.7002	0.7031
texture	0.9811	0.9779	0.9780
theorem	0.9097	0.8191	0.8194
thoracic	0.6158	0.2015	0.2264
Thyroid_Diff	0.8195	0.5789	0.6383
tis	0.8271	0.6298	0.6533
titanic	0.6952	0.3896	0.3904
tourist	0.5250	0.6364	0.6848
trains	0.3333	0.0000	0.0000
transfusion	0.5170	0.0325	0.0338
tuandromd	0.9358	0.8650	0.8714
turkish	0.7402	0.6667	0.6695
ur3_cobotops_grip	0.6311	0.1293	0.2120
ur3_cobotops_stop	0.6674	0.1897	0.2878
urban	0.8745	0.8607	0.8636
vehicle	0.7145	0.6778	0.6795
vote	0.8202	0.6293	0.6404
vowel	0.7442	0.7000	0.7040
wap-wc	0.6518	0.7783	0.7810
warpar10p	0.7151	0.7383	0.7537
warppie10p	1.0000	1.0000	1.0000
waveform	0.8479	0.7720	0.7720
weather-related	0.9527	0.9435	0.9437
weight-lift	0.9876	0.9852	0.9852
white-clover	0.6604	0.1818	0.3162
wifi-loc	0.9852	0.9800	0.9802
wilt	0.7234	0.2867	0.4090
wine	1.0000	1.0000	1.0000
winequality-red	0.3752	0.2934	0.3045
winequality-white	0.3952	0.3219	0.3362
wisc.bc	0.9817	0.9627	0.9633
yale	0.6732	0.6667	0.6839
yeast	0.4642	0.4643	0.4676
yeastCYT-POX	0.7496	0.3581	0.4670
yeastEXC	0.5819	0.0735	0.1233
Continued on next page			

Dataset	F1-macro	Kappa	MCC
yeastME1	0.7011	0.2046	0.3376
yeastME2	0.5955	0.1064	0.1605
zip	0.9377	0.9362	0.9362

Table 4: Detailed results for BGLM

Dataset	F1-macro	Kappa	MCC
abalone	0.1445	0.1150	0.1181
abalone19	0.4982	0.0000	0.0000
accelerometer	0.5338	0.0275	0.0443
ads	0.4623	0.0000	0.0000
adult	0.1915	0.0000	0.0000
advanced-iot	1.0000	1.0000	1.0000
AID_1431	0.4728	-0.0276	0.0000
AID_1431_KlekotaRothFingerprinter	0.4772	0.0000	0.0000
AID_1431_MACCSFingerprinter	0.4706	-0.0389	0.0000
AID_1878	0.5447	0.0437	0.0679
AID_602330	0.4894	0.0000	0.0000
AID_652128	0.3118	0.0000	0.0000
AID1284red	0.6330	0.2241	0.2533
AID1608Morered	0.5598	0.1166	0.1185
AID1608red	0.4798	-0.0300	0.0000
AID362red	0.4965	0.0000	0.0000
AID373AID439red	0.5000	0.0000	0.0000
AID373red	0.4997	0.0000	0.0000
AID456red	0.4992	0.0000	0.0000
AID604	0.4991	0.0000	0.0000
AID604AID644_AllRed	0.4997	0.0000	0.0000
AID687AID721red	0.4998	0.0000	0.0000
AID687red	0.4992	0.0000	0.0000
AID688red	0.4977	0.0000	0.0000
AID721morered	0.4000	-0.1739	0.0000
AID721red	0.4000	-0.1739	0.0000
AID746AID1284red	0.4997	0.0000	0.0000
AID746red	0.4985	0.0000	0.0000
aids	0.7886	0.5630	0.5760
air_pollution	0.0826	0.0000	0.0000
alcohol	0.4179	0.5135	0.5342
all-aml	1.0000	1.0000	1.0000
anneal	0.9872	0.9766	0.9769
antivirus	1.0000	1.0000	1.0000
anuran-f-b	0.4976	-0.0024	0.0000
anxiety	0.0855	-0.0241	0.0000
apple-quality	0.7307	0.4600	0.4615
aps-failure	0.8665	0.7274	0.7323
arabidopsis1%	0.4980	0.0000	0.0000
arcene	0.7462	0.4898	0.4924
arrhythmia	0.4083	0.4772	0.4898
auction	0.7385	0.4276	0.4667
audiology	0.7237	0.7859	0.7937
audit-risk	1.0000	1.0000	1.0000
autism-adolescent	0.3889	0.0000	0.0000
autism-adult	0.4215	0.0000	0.0000
autism-child	1.0000	1.0000	1.0000
autos	0.7554	0.8667	0.8758
avila	0.4754	0.3557	0.4076
balance	0.7647	0.8002	0.8013
bank	0.7473	0.4822	0.4922
bankruptcy	1.0000	1.0000	1.0000
bio	0.9186	0.8298	0.8366
biodeg	0.8587	0.7173	0.7173
biomed	1.0000	1.0000	1.0000
Continued on next page			

Dataset	F1-macro	Kappa	MCC
bitcoin10%	0.0903	-0.0000	0.0000
body-perf	0.6325	0.5124	0.5132
brain-tumor	0.5079	0.0159	0.0159
breast-cancer	0.5990	0.1765	0.1936
breast-cancer-ma	0.3529	0.0000	0.0000
breast-tissue	0.5820	0.5644	0.5816
bridges	0.7022	0.8485	0.8641
bub12at310k-hg16-17	0.6307	0.0129	0.0700
cad	1.0000	1.0000	1.0000
cancer	0.9841	0.9677	0.9682
cancer-uae	0.2584	-0.0047	0.0000
car-insurance	0.8008	0.6003	0.6015
cardiotocography-nsp	0.8070	0.7004	0.7007
cardiovascular	0.7205	0.4395	0.4409
cargo2k	1.0000	1.0000	1.0000
cars	0.6268	0.5084	0.5126
ccds10%	0.4902	0.0000	0.0000
cdc_diabetes	0.4248	0.2036	0.2504
census	0.4835	0.0000	0.0000
cervical-B	0.7273	0.4173	0.4455
cervical-H	0.7378	0.4756	0.4756
cervical-S	0.8890	0.7514	0.7758
children-anemia	0.8845	0.8450	0.8450
chrom19	0.8613	0.7156	0.7217
chrom211%	0.4998	0.0000	0.0000
churn	0.6400	0.2199	0.2636
cjs	0.0651	0.0000	0.0000
ckd	0.3939	0.0000	0.0000
clave	0.5626	0.6907	0.6924
cll_sub_111	0.2222	0.0000	0.0000
cmc	0.4709	0.2006	0.2027
cnae-9	0.9729	0.9688	0.9689
codon_usage	0.7437	0.8618	0.8621
coil20	0.9933	0.9927	0.9927
college	0.8736	0.7457	0.7472
collins	1.0000	1.0000	1.0000
colon-tumor	0.6604	0.1818	0.3162
colposcopies-1	0.5421	0.0842	0.0842
colposcopies-2	0.6122	0.2120	0.2233
colposcopies-4	0.5685	0.1369	0.1369
colposcopies-5	0.4528	0.0000	0.0000
colposcopies-c	0.7397	0.4487	0.4754
column-2c	0.8931	0.7842	0.7863
column-3c	0.7395	0.6853	0.6865
connect-4	1.0000	1.0000	1.0000
coupon	0.6718	0.3421	0.3437
covtype	0.5496	0.5499	0.5509
covtypeCD	0.8830	0.7630	0.7657
covtypeT	0.7444	0.4713	0.4849
crabs	1.0000	1.0000	1.0000
creditcard_trans	0.9058	0.8043	0.8108
crowdsourced	0.8042	0.7938	0.7954
cryotherapy	0.9000	0.7805	0.8000
cultivars	0.3281	0.4549	0.4633
cybersecurity	0.1648	-0.0070	0.0000
cyclopentane	0.7360	0.4706	0.4719
cylinder-bands	0.7349	0.4698	0.4698
datatrieve	0.4800	0.0000	0.0000
Continued on next page			

Dataset	F1-macro	Kappa	MCC
dating	0.0996	0.0000	0.0000
dbworld	0.3636	0.0000	0.0000
default	0.6859	0.3008	0.3563
dementia	1.0000	1.0000	1.0000
deposit	0.7201	0.4163	0.4351
depressed	0.4542	0.0000	0.0000
dermatology	0.9429	0.9325	0.9325
desharnais	0.3639	0.1351	0.1391
df_final	0.7616	0.6098	0.6258
DIA	0.6593	0.3182	0.3185
diabetes-100k	0.8457	0.6772	0.6897
diagnosis	1.0000	1.0000	1.0000
diamonds	1.0000	1.0000	1.0000
diamonds_all	0.5574	0.5012	0.5069
dishonest	1.0000	1.0000	1.0000
dlbcl-nih	0.3684	0.0000	0.0000
dlbcl-stanford	1.0000	1.0000	1.0000
dna0.1%	0.4993	0.0000	0.0000
dota2	0.5970	0.1924	0.1941
drebin	0.9793	0.9586	0.9586
dropout	0.6942	0.6177	0.6226
ecoli	0.5681	0.8369	0.8390
ecoliCP-IM	1.0000	1.0000	1.0000
ecoliM	0.8032	0.6043	0.6062
ecoliMU	0.6333	0.2667	0.2667
ecoliOM	0.8514	0.6526	0.6960
ecommerce	0.2596	0.0140	0.0140
euthyroid	0.8960	0.7880	0.7917
fakenews	0.5374	0.0748	0.0748
fbis-wc	0.7597	0.7814	0.7848
finance	1.0000	1.0000	1.0000
financial-risk	0.6593	0.7497	0.7507
flags	0.0659	0.0000	0.0000
forest	0.9006	0.8941	0.8950
gas	0.9917	0.9895	0.9895
gastrointestinal	0.5460	0.2956	0.3013
gender	0.3807	0.1449	0.1583
german	0.7121	0.3812	0.4202
gestures	0.3204	0.0959	0.0961
gina	0.8184	0.6365	0.6368
gisette	0.3333	0.0000	0.0000
glass	0.6934	0.5288	0.5307
glass-g2	0.8667	0.7333	0.7333
glassBWFP	0.7419	0.4560	0.4824
glassBWNFP	0.6834	0.1818	0.3162
glassContainers	0.4762	0.0000	0.0000
glassNW	0.9340	0.8591	0.8677
glassTableware	1.0000	1.0000	1.0000
GlaucomaM	0.7889	0.5778	0.5778
gli_85	0.4286	0.0000	0.0000
glioma	0.6250	0.7059	0.7500
glioma-grade	0.9055	0.8072	0.8110
green	0.5238	0.0476	0.0476
gsalc	0.0333	0.0000	0.0000
haberman	0.5793	0.1045	0.1410
hapt	0.8666	0.9622	0.9622
har	0.7867	0.7422	0.7432
harth10%	0.2677	0.5390	0.5642
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Dataset	F1-macro	Kappa	MCC
health-activity	0.2175	0.0000	0.0000
heart	0.8466	0.6932	0.6932
heart-c	0.9000	0.7982	0.8000
heart-failure	0.8057	0.6113	0.6115
heart-quantum	0.9423	0.8780	0.8847
hepatitis	0.8544	0.6667	0.7071
higher	0.2391	0.1667	0.1799
hinselmann	0.4118	-0.1538	0.0000
hitters	0.9373	0.8745	0.8745
hiv1-proteasa	0.8728	0.7454	0.7456
hiva	0.4867	-0.0231	0.0000
horse	0.5689	0.3386	0.3405
hotel-reservartions	0.7942	0.5848	0.5882
hr	0.4602	-0.0199	0.0000
ht-sensor	0.5974	0.3875	0.3891
htru2	0.9352	0.8667	0.8702
hypothyroid	0.4683	0.4037	0.5074
immuno-therapy	0.8333	0.6087	0.6614
ionosphere	0.8674	0.7348	0.7348
iris	1.0000	1.0000	1.0000
irish	1.0000	1.0000	1.0000
isolet	0.9361	0.9319	0.9321
jm1	0.6289	0.1485	0.2181
javowels	0.9553	0.9522	0.9523
kc1-class-level-numericdefect	0.3650	0.2935	0.2976
kc1-class-level-top5percentDF	0.4643	-0.0714	0.0000
kc2	0.6298	0.2394	0.2551
kdc-4007	0.0377	0.0000	0.0000
kddcup991%	0.8088	0.9949	0.9949
kidney	0.1778	0.0000	0.0000
kidney-disease	0.3846	0.0000	0.0000
la2s-wc	0.0765	0.0000	0.0000
labor	0.8537	0.6667	0.7071
leaf	0.8018	0.7836	0.7908
led24	0.6322	0.6034	0.6103
lenses	1.0000	1.0000	1.0000
letter	0.8343	0.8283	0.8285
linkage1%	1.0000	1.0000	1.0000
loan	0.9148	0.8292	0.8296
lrs	0.4539	0.8143	0.8268
lung_discrete	0.7143	1.0000	1.0000
lymphography	0.4140	0.6000	0.6181
lymphoma2	0.5263	0.8500	0.8645
machine-failure	0.8916	0.7825	0.7832
magic04	0.7523	0.4971	0.5043
malware	1.0000	1.0000	1.0000
mammography	0.8536	0.7072	0.7072
marketing	0.7768	0.5110	0.5468
mba	0.3834	0.1130	0.1345
mental-disorders	0.9270	0.8889	0.8972
messidor	0.7298	0.4578	0.4596
meter-A	0.7241	0.3333	0.4472
meter-B	1.0000	1.0000	1.0000
meter-C	1.0000	1.0000	1.0000
meter-D	0.9175	0.9217	0.9260
mfeat-fac	0.9754	0.9722	0.9723
mfeat-fou	0.8660	0.8500	0.8503
mfeat-kar	0.9710	0.9667	0.9669
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Dataset	F1-macro	Kappa	MCC
mfeat-mor	0.7183	0.6833	0.6841
mfeat-pix	0.9806	0.9778	0.9779
mfeat-zer	0.8237	0.8000	0.8004
mice-prot	1.0000	1.0000	1.0000
milk	0.9152	0.8712	0.8742
mines	0.4634	0.4106	0.4266
mobile	0.8845	0.8718	0.8722
monks-1	0.6382	0.2696	0.2763
monks-3	0.6778	0.3547	0.3556
mushroom	1.0000	1.0000	1.0000
music	0.4951	0.3801	0.3910
MUT_ci300400a_cdk_ECFP2	0.8025	0.6036	0.6050
MUT_ci300400a_cdk_ECFP4	0.7795	0.5586	0.5590
MUT_ci300400a_cdk_ECFP6	0.7480	0.4948	0.4959
MUT_ci300400a_cdk_ESTATE	0.7152	0.4301	0.4303
MUT_ci300400a_cdk_EXTENDED	0.7838	0.5676	0.5677
MUT_ci300400a_cdk_FCFP2	0.7746	0.5487	0.5491
MUT_ci300400a_cdk_FCFP4	0.7695	0.5388	0.5391
MUT_ci300400a_cdk_FCFP6	0.3682	0.0000	0.0000
MUT_ci300400a_cdk_MACCS	0.7529	0.5016	0.5057
MUT_ci300400a_cdk_PUBCHEM	0.8276	0.6537	0.6552
MUT_ci300400a_cdk_STANDARD	0.7747	0.5494	0.5494
MUT_ci300400a_rdkit_descriptors	0.7835	0.5662	0.5670
myocardial	0.3527	0.4479	0.4663
naticusdroid	0.9629	0.9257	0.9258
nci9	0.0476	0.0000	0.0000
ncRNA10%	0.2752	0.0776	0.1171
neo	0.6080	0.1117	0.1687
new-thyroid	1.0000	1.0000	1.0000
new-thyroidT	1.0000	1.0000	1.0000
newspop	0.6450	0.2893	0.2901
NHANES_age_prediction	1.0000	1.0000	1.0000
nomao	0.9302	0.8604	0.8604
nursery	0.7193	0.9014	0.9016
obesity	0.9565	0.9502	0.9502
obs	0.8768	0.7477	0.7543
oh0-wc	0.0112	0.0000	0.0000
oh10-wc	0.0205	0.0000	0.0000
oh15-wc	0.0141	0.0000	0.0000
oh5-wc	0.0104	0.0000	0.0000
olive	0.9174	0.9123	0.9157
optdigits	0.9797	0.9763	0.9763
orlraws10P	0.0182	0.0000	0.0000
ozone1hr	0.7546	0.3553	0.4648
p53-mutants10%	0.4992	0.0000	0.0000
parkinson	0.9741	0.9481	0.9482
particle	0.8891	0.7782	0.7783
pc1	0.4789	-0.0163	0.0000
pcmac	0.3681	0.0000	0.0000
pediatric-leukemia	0.0544	0.0000	0.0000
pendigits	0.9792	0.9767	0.9768
period-10f	0.5950	0.1818	0.1890
persistence	0.7842	0.5680	0.5683
personalities	0.9515	0.9483	0.9483
pet-adoption	0.9103	0.8088	0.8204
phishing	0.9571	0.9137	0.9143
PhiUSIIL10%	1.0000	1.0000	1.0000
phy	0.7066	0.4131	0.4133
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Dataset	F1-macro	Kappa	MCC
pima	0.6735	0.3063	0.3435
pirvision	0.9876	0.9774	0.9774
placement	0.7913	0.5826	0.5827
plrx	0.4194	0.0000	0.0000
polya	0.7594	0.5140	0.5187
popularity	0.4423	0.2063	0.2298
post-operative	0.2667	0.0000	0.0000
postures	0.8478	0.8091	0.8096
pred-tox_mutagen_ref-desc	0.7062	0.4118	0.4125
prestige	0.8889	0.8302	0.8462
primary-tumor	0.4625	0.5266	0.5338
processed	1.0000	1.0000	1.0000
profb	0.7737	0.5442	0.5473
promoters	0.9010	0.7826	0.8018
puc-rio	0.0830	0.0000	0.0000
pufs-1281%	0.5078	0.0157	0.0157
pufs-6410%	0.5019	0.0038	0.0038
pulsar	0.9355	0.8661	0.8708
raisin	0.9115	0.8222	0.8230
rejafada	0.4910	0.0000	0.0000
relathe	0.3516	0.0000	0.0000
rice	0.9867	0.9733	0.9734
rocket	0.5793	0.1540	0.1583
RT_IOT2022	0.8989	0.8556	0.8571
satimage	0.8343	0.8306	0.8316
scadi	0.6984	0.6316	0.6860
schiller	0.6786	0.3571	0.3571
sclerosis	1.0000	1.0000	1.0000
secom	0.5916	0.1767	0.1810
secondary_mushroom	0.8710	0.7418	0.7420
seeds	0.9553	0.9286	0.9317
segment	0.9646	0.9544	0.9545
segmentation	0.7977	0.5945	0.5954
segmentO	1.0000	1.0000	1.0000
seismic	0.6083	0.0927	0.1547
sens-2-gram	0.5114	0.0143	0.0187
sens-3-gram	0.5570	0.1106	0.1130
sens-4-gram	0.4648	0.0000	0.0000
sensorless	0.9087	0.8990	0.8993
shoppers	0.7440	0.4269	0.4762
sick	0.8110	0.6143	0.6208
sirtuin6	1.0000	1.0000	1.0000
smarket	0.9921	0.9840	0.9841
smk_can_187	0.3448	0.0000	0.0000
smoking	0.7337	0.4665	0.4674
soil_pollution	0.1992	-0.0057	0.0000
solar-flare	0.6918	0.6941	0.6978
sonar	0.4000	-0.2000	0.0000
soybean	0.9781	0.9839	0.9841
spam-detection	0.8110	0.6114	0.6205
spambase	0.9043	0.8058	0.8086
spect	0.5714	0.1429	0.1429
spectf	0.7770	0.5227	0.5514
spectrometer	0.6249	0.7144	0.7175
squash-unstored	0.5714	0.6429	0.6944
startup	1.0000	1.0000	1.0000
steel_industry	0.7110	0.6104	0.6107
stellar	0.9591	0.9369	0.9371
Continued on next page			

Dataset	F1-macro	Kappa	MCC
stock	0.8381	0.6702	0.6756
stockb	0.9956	0.9934	0.9934
streaming	0.7975	0.5949	0.5950
stress	1.0000	1.0000	1.0000
student-depression	0.8287	0.6563	0.6573
student-habits	0.1886	0.0638	0.0680
student-lifestyle	0.3546	0.3965	0.4048
student-weekend	0.3125	0.1591	0.1608
student-workday	0.1670	0.0801	0.1002
studentap	0.3833	0.0545	0.0550
swarm_aligned	0.4075	0.0000	0.0000
swarm_flocking	0.3333	0.0000	0.0000
swarm_grouped	0.3846	0.0000	0.0000
tae	0.4820	0.2000	0.2056
telco-churn	0.8747	0.7490	0.7493
texture	0.9982	0.9980	0.9980
theorem	1.0000	1.0000	1.0000
thoracic	0.5713	0.1215	0.1352
Thyroid_Diff	0.9360	0.8721	0.8721
tis	0.8715	0.7428	0.7429
titanic	0.7833	0.5545	0.5660
tourist	0.1333	0.0000	0.0000
trains	0.3333	0.0000	0.0000
transfusion	0.4231	-0.0504	0.0000
tuandromd	0.9650	0.9298	0.9299
turkish	0.8864	0.8333	0.8397
tvnews	0.8901	0.7801	0.7803
ur3_cobotops_grip	0.4917	0.0000	0.0000
ur3_cobotops_stop	0.4906	0.0000	0.0000
urban	0.8688	0.8425	0.8440
ustilago10%	0.4973	0.0000	0.0000
vehicle	0.7521	0.6973	0.7031
vote	0.8878	0.7681	0.7756
vowel	0.6157	0.5444	0.5504
wap-wc	0.0179	0.0000	0.0000
warpar10p	1.0000	1.0000	1.0000
warppie10p	1.0000	1.0000	1.0000
waveform	0.8381	0.7570	0.7572
weather-related	0.9739	0.9695	0.9695
weight-lift	0.9166	0.8971	0.8972
white-clover	0.1875	-0.2000	0.0000
wifi-loc	0.9950	0.9933	0.9934
wilt	0.8526	0.6876	0.7030
wine	0.9410	0.9006	0.9064
winequality-red	0.2667	0.3130	0.3175
winequality-white	0.2629	0.2414	0.2507
winnipeg10%	0.9930	0.9887	0.9888
wisc.bc	0.9817	0.9627	0.9633
yale	0.8320	0.8655	0.8729
yeast	0.3404	0.3626	0.3715
yeastCYT-POX	0.9047	0.7897	0.8078
yeastEXC	0.4897	-0.0183	0.0000
yeastME1	0.7845	0.5613	0.5674
yeastME2	0.7773	0.4325	0.5253
zip	0.9422	0.9397	0.9398

Table 5: Detailed results for BRF

Dataset	F1-macro	Kappa	MCC
abalone	0.0512	0.0365	0.0381
abalone19	0.5142	0.0029	0.0106
accelerometer	0.6855	0.1779	0.2977
ads	0.9505	0.9007	0.9009
adult	0.7874	0.5503	0.5737
advanced-iot	1.0000	1.0000	1.0000
AID_1431	0.3893	-0.1056	0.0000
AID_1431_KlekotaRothFingerprinter	0.4584	-0.0409	0.0000
AID_1431_MACCSFingerprinter	0.4776	-0.0209	0.0000
AID_1878	0.5718	0.1241	0.1407
AID_602330	0.5171	0.0107	0.0241
AID_652128	0.4352	0.0427	0.0806
AID1284red	0.5308	0.0386	0.0581
AID1608Morered	0.6190	0.1082	0.2062
AID1608red	0.5978	0.1007	0.1654
AID362red	0.5747	0.0408	0.0901
AID373AID439red	0.6311	0.0008	0.0202
AID373red	0.5914	0.0039	0.0336
AID456red	0.5030	0.0002	0.0014
AID604	0.6623	0.0446	0.1510
AID604AID644_AllRed	0.6014	0.0060	0.0425
AID687AID721red	0.5985	0.0012	0.0240
AID687red	0.5736	0.0056	0.0385
AID688red	0.5180	0.0029	0.0137
AID721morered	0.1818	-0.4651	0.0000
AID721red	0.5970	0.0690	0.1890
AID746AID1284red	0.6115	0.0043	0.0406
AID746red	0.6057	0.0214	0.0866
aids	0.8533	0.6969	0.7064
air_pollution	0.1591	0.0138	0.0146
alcohol	0.6038	0.5448	0.5515
all-aml	1.0000	1.0000	1.0000
anneal	0.7963	0.6523	0.7017
antivirus	1.0000	1.0000	1.0000
anuran-f-b	0.7848	0.4545	0.5423
anxiety	0.1031	-0.0044	0.0000
apple-quality	0.8752	0.7500	0.7503
aps-failure	0.7576	0.3804	0.4803
arabidopsis1%	0.5952	0.0200	0.0820
arcene	0.7667	0.5098	0.5334
arrhythmia	0.3373	0.2161	0.2571
auction	0.9791	0.9573	0.9582
audiology	0.1834	0.3758	0.3922
audit-risk	1.0000	1.0000	1.0000
autism-adolescent	1.0000	1.0000	1.0000
autism-adult	1.0000	1.0000	1.0000
autism-child	1.0000	1.0000	1.0000
autos	0.5734	0.5611	0.5685
avila	0.5881	0.4750	0.4942
balance	0.5447	0.3974	0.4361
bank	0.7828	0.5037	0.5584
bankruptcy	1.0000	1.0000	1.0000
bio	0.7651	0.4100	0.4988
biodeg	0.8625	0.7226	0.7249
biomed	1.0000	1.0000	1.0000
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Dataset	F1-macro	Kappa	MCC
bitcoin10%	0.0768	0.1524	0.2396
body-perf	0.7426	0.6557	0.6568
brain-tumor	0.5000	-0.0000	0.0000
breast-cancer	0.6816	0.3368	0.3623
breast-cancer-ma	0.4248	-0.1379	0.0000
breast-tissue	0.7179	0.6733	0.6869
bridges	0.6636	0.7297	0.7404
bub12at310k-hg16-17	0.6969	0.3175	0.3792
cad	1.0000	1.0000	1.0000
cancer	1.0000	1.0000	1.0000
cancer-uae	0.3059	-0.0420	0.0000
car-insurance	0.8081	0.6056	0.6159
cardiotocography-nsp	0.8308	0.7371	0.7467
cardiovascular	0.7145	0.4289	0.4289
cargo2k	1.0000	1.0000	1.0000
cars	0.7265	0.6207	0.6350
ccds10%	0.6145	0.1080	0.1839
cdc_diabetes	0.4685	0.2107	0.2677
census	0.7382	0.3722	0.4557
cervical-B	0.7711	0.5343	0.5409
cervical-H	0.8108	0.5409	0.6089
cervical-S	0.7833	0.5497	0.5642
children-anemia	0.9098	0.8925	0.8930
chrom19	0.6829	0.0974	0.2221
chrom211%	0.5806	0.0010	0.0221
churn	0.7361	0.4440	0.4700
cjs	0.9959	0.9956	0.9957
ckd	1.0000	1.0000	1.0000
clave	0.6855	0.6148	0.6304
cll_sub_111	0.4220	0.0455	0.0471
cmc	0.5347	0.3100	0.3133
cnae-9	0.9465	0.9375	0.9379
codon_usage	0.6122	0.6138	0.6185
coil20	1.0000	1.0000	1.0000
college	0.8981	0.7867	0.7960
collins	0.6641	0.6946	0.7019
colon-tumor	0.7500	0.4000	0.5000
colposcopies-1	0.7304	0.4423	0.4606
colposcopies-2	0.6565	0.3040	0.3125
colposcopies-4	0.5107	0.0193	0.0213
colposcopies-5	0.7208	0.3940	0.4371
colposcopies-c	0.6594	0.3136	0.3183
column-2c	0.9342	0.8597	0.8683
column-3c	0.7543	0.6895	0.6930
connect-4	0.6334	0.4318	0.5027
coupon	0.7484	0.4960	0.4968
covtype	0.7472	0.6682	0.6739
covtypeCD	0.9434	0.8815	0.8866
covtypeT	0.8712	0.7131	0.7396
crabs	0.9141	0.8667	0.8785
creditcard_trans	0.6834	0.1149	0.2395
crowdsourced	0.7732	0.7697	0.7762
cryotherapy	0.7404	0.3721	0.4781
cultivars	0.4643	0.6133	0.6189
cybersecurity	0.1415	-0.0315	0.0000
cyclopentane	0.6973	0.3898	0.3944
cylinder-bands	0.7970	0.5903	0.5941
datatrieve	0.6977	0.2353	0.3651
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Dataset	F1-macro	Kappa	MCC
dating	0.1021	0.0022	0.0023
dbworld	1.0000	1.0000	1.0000
default	0.6963	0.3771	0.3913
dementia	1.0000	1.0000	1.0000
deposit	0.7723	0.4792	0.5368
depressed	0.5309	0.0459	0.0595
dermatology	0.9429	0.9325	0.9325
desharnais	0.6525	0.4146	0.4499
df_final	0.6844	0.5349	0.5577
DIA	0.7453	0.4800	0.4899
diabetes-100k	0.8097	0.5715	0.6133
diagnosis	1.0000	1.0000	1.0000
diamonds	1.0000	1.0000	1.0000
diamonds_all	0.7236	0.6302	0.6370
dishonest	1.0000	1.0000	1.0000
dlbcl-nih	0.4000	-0.2000	0.0000
dlbcl-stanford	1.0000	1.0000	1.0000
dna0.1%	0.6223	0.0146	0.0774
dota2	0.5737	0.1469	0.1475
drebin	0.9914	0.9828	0.9829
dropout	0.7081	0.5803	0.5879
ecoli	0.4703	0.6009	0.6147
ecoliCP-IM	1.0000	1.0000	1.0000
ecoliM	0.8253	0.6341	0.6500
ecoliMU	0.6205	0.1667	0.2236
ecoliOM	0.7339	0.4677	0.4677
ecommerce	0.2545	0.0012	0.0012
euthyroid	0.8855	0.7625	0.7703
fakenews	0.5024	0.0049	0.0049
fbis-wc	0.7772	0.7816	0.7827
finance	0.7438	0.4872	0.4876
financial-risk	0.4607	0.3246	0.3392
flags	0.4906	0.3855	0.4234
forest	0.9069	0.8937	0.8983
gas	0.9950	0.9939	0.9939
gastrointestinal	0.8120	0.6279	0.6793
gender	0.4602	0.1423	0.1509
german	0.6205	0.2389	0.2408
gestures	0.9171	0.8893	0.8895
gina	0.9539	0.9078	0.9078
gisette	0.9714	0.9429	0.9429
glass	0.7506	0.5385	0.5842
glass-g2	1.0000	1.0000	1.0000
glassBWFP	0.9529	0.9014	0.9058
glassBWNFP	0.7698	0.5161	0.5394
glassContainers	1.0000	1.0000	1.0000
glassNW	1.0000	1.0000	1.0000
glassTableware	0.7471	0.3529	0.4629
GlaucomaM	0.7978	0.5824	0.5955
gli_85	0.8730	0.7143	0.7454
glioma	0.6250	0.7059	0.7500
glioma-grade	0.8813	0.7590	0.7626
green	0.4553	-0.0870	0.0000
gsalc	1.0000	1.0000	1.0000
haberman	0.6932	0.3602	0.3854
hapt	0.7756	0.8769	0.8771
har	0.9955	0.9948	0.9948
harth10%	0.5030	0.8032	0.8131
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Dataset	F1-macro	Kappa	MCC
health-activity	0.2111	-0.0089	0.0000
heart	0.7666	0.5263	0.5330
heart-c	0.9330	0.8661	0.8661
heart-failure	0.9791	0.9579	0.9581
heart-quantum	0.9249	0.8387	0.8498
hepatitis	0.8544	0.6667	0.7071
higher	0.1782	0.0941	0.0970
hinselmann	0.5000	0.0000	0.0000
hitters	0.9373	0.8745	0.8745
hiv1-proteasa	0.8452	0.6687	0.6890
hiva	0.5745	0.0772	0.1190
horse	0.6275	0.4236	0.4276
hotel-reservartions	0.8947	0.7880	0.7893
hr	0.5230	0.0271	0.0433
ht-sensor	0.9999	0.9999	0.9999
htru2	0.8981	0.7893	0.7957
hypothyroid	0.4182	0.2025	0.2933
immuno-therapy	0.8784	0.7273	0.7559
ionosphere	0.9404	0.8736	0.8807
iris	1.0000	1.0000	1.0000
irish	1.0000	1.0000	1.0000
isolet	0.9057	0.8972	0.8976
jm1	0.6588	0.2776	0.3138
jvowels	0.9749	0.9738	0.9739
kc1-class-level-numericdefect	0.0256	0.1139	0.1332
kc1-class-level-top5percentDF	0.3478	-0.1290	0.0000
kc2	0.8159	0.5674	0.6293
kdc-4007	0.7070	0.7729	0.7733
kddcup991%	0.6074	0.8478	0.8532
kidney	0.1814	-0.0151	0.0000
kidney-disease	1.0000	1.0000	1.0000
la2s-wc	0.8409	0.8196	0.8237
labor	0.8537	0.6667	0.7071
leaf	0.4001	0.6909	0.6966
led24	0.6724	0.6610	0.6667
lenses	1.0000	1.0000	1.0000
letter	0.9638	0.9625	0.9626
linkage1%	1.0000	1.0000	1.0000
loan	0.9850	0.9700	0.9701
lrs	0.2693	0.4322	0.4634
lung_discrete	0.7143	1.0000	1.0000
lymphography	0.6005	0.6557	0.6868
lymphoma2	0.5000	0.6029	0.6419
machine-failure	0.9237	0.8472	0.8474
magic04	0.8624	0.7238	0.7248
malware	1.0000	1.0000	1.0000
mammography	0.7971	0.5860	0.5942
marketing	0.7218	0.3948	0.4378
mba	0.4989	0.2435	0.3036
mental-disorders	0.9270	0.8889	0.8972
messidor	0.6752	0.3499	0.3504
meter-A	0.8000	0.5294	0.6000
meter-B	1.0000	1.0000	1.0000
meter-C	0.9583	0.9234	0.9274
meter-D	0.9148	0.9221	0.9262
mfeat-fac	0.9707	0.9667	0.9668
mfeat-fou	0.8066	0.7833	0.7840
mfeat-kar	0.9805	0.9778	0.9779
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Dataset	F1-macro	Kappa	MCC
mfeat-mor	0.6875	0.6500	0.6506
mfeat-pix	0.9856	0.9833	0.9835
mfeat-zer	0.7777	0.7500	0.7506
mice-prot	1.0000	1.0000	1.0000
milk	1.0000	1.0000	1.0000
mines	0.5319	0.4463	0.4512
mobile	0.9518	0.9466	0.9468
monks-1	1.0000	1.0000	1.0000
monks-3	0.9653	0.9283	0.9307
mushroom	1.0000	1.0000	1.0000
music	0.5382	0.3755	0.3833
MUT_ci300400a_cdk_ECFP2	0.8149	0.6253	0.6298
MUT_ci300400a_cdk_ECFP4	0.8376	0.6724	0.6751
MUT_ci300400a_cdk_ECFP6	0.8111	0.6222	0.6223
MUT_ci300400a_cdk_ESTATE	0.7923	0.5845	0.5846
MUT_ci300400a_cdk_EXTENDED	0.8707	0.7380	0.7415
MUT_ci300400a_cdk_FCFP2	0.8238	0.6441	0.6477
MUT_ci300400a_cdk_FCFP4	0.8101	0.6170	0.6202
MUT_ci300400a_cdk_FCFP6	0.8168	0.6321	0.6336
MUT_ci300400a_cdk_MACCS	0.8510	0.6989	0.7019
MUT_ci300400a_cdk_PUBCHEM	0.8819	0.7629	0.7637
MUT_ci300400a_cdk_STANDARD	0.8480	0.6949	0.6960
MUT_ci300400a_rdkit_descriptors	0.8560	0.7092	0.7120
myocardial	0.3367	0.1960	0.2531
naticusdroid	0.9717	0.9434	0.9434
nci9	0.3030	0.4375	0.4830
ncRNA10%	0.5306	0.7586	0.7561
neo	0.7594	0.4114	0.5041
new-thyroid	1.0000	1.0000	1.0000
new-thyroidT	1.0000	1.0000	1.0000
newspop	0.6647	0.3293	0.3294
NHANES_age_prediction	1.0000	1.0000	1.0000
nomao	0.9553	0.9098	0.9105
nursery	0.4867	0.5129	0.5372
obesity	0.9404	0.9280	0.9293
obs	0.9811	0.9591	0.9602
oh0-wc	0.9138	0.8987	0.9000
oh10-wc	0.7537	0.7319	0.7343
oh15-wc	0.9025	0.8892	0.8905
oh5-wc	0.9046	0.8762	0.8774
olive	0.9293	0.9129	0.9147
optdigits	0.9658	0.9604	0.9605
orlraws10P	1.0000	1.0000	1.0000
ozone1hr	0.7197	0.2662	0.3919
p53-mutants10%	0.6446	0.0209	0.1027
parkinson	0.9915	0.9828	0.9830
particle	0.9146	0.8244	0.8291
pc1	0.6977	0.2760	0.3701
pcmac	0.5025	0.0048	0.0050
pediatric-leukemia	0.7837	0.7516	0.7547
pendigits	0.9935	0.9929	0.9929
period-10f	0.5791	0.1429	0.1581
persistence	0.8156	0.6307	0.6311
personalities	0.9747	0.9730	0.9730
pet-adoption	0.9145	0.8284	0.8289
phishing	0.9786	0.9573	0.9573
PhiUSIIL10%	1.0000	1.0000	1.0000
phy	0.7128	0.4255	0.4256
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Dataset	F1-macro	Kappa	MCC
pima	0.7980	0.5940	0.5960
pirvision	0.9776	0.9579	0.9588
placement	0.7824	0.5642	0.5649
plrx	0.4721	-0.0519	0.0000
polya	0.7593	0.5114	0.5186
popularity	0.5026	0.2162	0.2443
post-operative	0.3810	0.1667	0.2041
postures	0.9883	0.9856	0.9856
pred-tox_mutagen_ref-desc	0.6919	0.3824	0.3839
prestige	0.8889	0.8302	0.8462
primary-tumor	0.2452	0.3232	0.3371
processed	1.0000	1.0000	1.0000
profb	0.6333	0.2433	0.2664
promoters	0.9083	0.8000	0.8165
puc-rio	0.9910	0.9929	0.9929
pufs-1281%	0.5020	0.0040	0.0040
pufs-6410%	0.5006	0.0013	0.0013
pulsar	0.9094	0.8138	0.8186
raisin	0.9001	0.8000	0.8002
rejafada	0.9665	0.9307	0.9330
relathe	1.0000	1.0000	1.0000
rice	0.9856	0.9711	0.9711
rocket	0.7189	0.4179	0.4378
RT_IOT2022	0.8477	0.9652	0.9652
satimage	0.9046	0.8949	0.8951
scadi	0.3687	0.4615	0.4867
schiller	0.5950	0.1818	0.1890
sclerosis	1.0000	1.0000	1.0000
secom	0.6032	0.1084	0.1777
secondary_mushroom	1.0000	1.0000	1.0000
seeds	0.9553	0.9286	0.9317
segment	0.9814	0.9747	0.9751
segmentation	0.8486	0.6897	0.6971
segmentO	0.9916	0.9830	0.9831
seismic	0.6443	0.1938	0.2631
sens-2-gram	0.6303	0.2130	0.2523
sens-3-gram	0.6539	0.2675	0.3009
sens-4-gram	0.5897	0.1569	0.1745
sensorless	0.9990	0.9989	0.9989
shoppers	0.8004	0.5759	0.5986
sick	0.8872	0.7687	0.7739
sirtuin6	1.0000	1.0000	1.0000
smarket	0.9921	0.9840	0.9841
smk_can_187	0.5225	0.0447	0.0449
smoking	0.8303	0.6419	0.6606
soil_pollution	0.2060	0.0081	0.0081
solar-flare	0.6268	0.6156	0.6238
sonar	0.6508	0.3000	0.3015
soybean	0.9809	0.9678	0.9688
spam-detection	0.8467	0.6716	0.6912
spambase	0.9343	0.8685	0.8686
spect	0.7404	0.3721	0.4781
spectf	0.8600	0.7200	0.7200
spectrometer	0.2080	0.3662	0.3695
squash-unstored	0.2857	0.2308	0.3062
startup	1.0000	1.0000	1.0000
steel_industry	0.8969	0.8659	0.8663
stellar	0.9670	0.9486	0.9487
Continued on next page			

Dataset	F1-macro	Kappa	MCC
stock	0.8104	0.5799	0.6183
stockb	0.9956	0.9934	0.9934
streaming	0.9960	0.9919	0.9919
stress	0.9845	0.9801	0.9805
student-depression	0.8271	0.6541	0.6543
student-habits	0.2984	0.0909	0.1032
student-lifestyle	0.3266	0.1795	0.1990
student-weekend	0.2809	0.0695	0.0726
student-workday	0.2394	0.1651	0.1769
studentap	0.5960	0.3036	0.3242
swarm_aligned	1.0000	1.0000	1.0000
swarm_flocking	1.0000	1.0000	1.0000
swarm_grouped	1.0000	1.0000	1.0000
tae	0.6082	0.4000	0.4027
telco-churn	0.8657	0.7256	0.7312
texture	0.9812	0.9779	0.9780
theorem	1.0000	1.0000	1.0000
thoracic	0.5740	0.1151	0.1425
Thyroid_Diff	0.9681	0.9343	0.9363
tis	0.8626	0.7115	0.7248
titanic	0.7276	0.4549	0.4552
tourist	0.8333	1.0000	1.0000
trains	0.3333	0.0000	0.0000
transfusion	0.5420	0.0762	0.0833
tuandromd	0.9732	0.9457	0.9465
turkish	0.8213	0.7667	0.7699
tvnews	0.9541	0.9081	0.9082
ur3_cobotops_grip	0.6669	0.2068	0.2917
ur3_cobotops_stop	0.8193	0.5762	0.6286
urban	0.8893	0.8431	0.8449
ustilago10%	0.6227	0.0449	0.1334
vehicle	0.7147	0.6775	0.6789
vote	0.9307	0.8605	0.8615
vowel	0.6811	0.6222	0.6319
wap-wc	0.5523	0.5558	0.5606
warpar10p	0.7059	0.7400	0.7553
warppie10p	1.0000	1.0000	1.0000
waveform	0.8402	0.7600	0.7603
weather-related	0.9746	0.9674	0.9675
weight-lift	0.9994	0.9994	0.9994
white-clover	0.1250	0.0000	0.0000
wifi-loc	0.9950	0.9933	0.9934
wilt	0.8195	0.5929	0.6322
wine	1.0000	1.0000	1.0000
winequality-red	0.3847	0.1768	0.1914
winequality-white	0.2319	0.1241	0.1357
winnipeg10%	0.9473	0.9659	0.9659
wisc.bc	0.9817	0.9627	0.9633
yale	0.7652	0.7983	0.8051
yeast	0.4097	0.4707	0.4719
yeastCYT-POX	0.6979	0.2108	0.3433
yeastEXC	0.7292	0.2877	0.4099
yeastME1	0.7807	0.4478	0.5371
yeastME2	0.6794	0.2691	0.3337
zip	0.9410	0.9398	0.9398

Table 6: Detailed results for C5.0

Dataset	F1-macro	Kappa	MCC
abalone	0.0926	0.0693	0.0697
abalone19	0.4982	0.0000	0.0000
accelerometer	0.4955	0.0000	0.0000
ads	0.8785	0.7337	0.7551
adult	0.7902	0.5663	0.5791
advanced-iot	1.0000	1.0000	1.0000
AID_1431	0.4772	0.0000	0.0000
AID_1431_KlekotaRothFingerprinter	0.4772	0.0000	0.0000
AID_1431_MACCSFingerprinter	0.4772	0.0000	0.0000
AID_1878	0.4324	-0.0951	0.0000
AID_602330	0.4894	0.0000	0.0000
AID_652128	0.2938	-0.0896	0.0000
AID1284red	0.7065	0.4033	0.4115
AID1608Morered	0.5211	0.0410	0.0417
AID1608red	0.4850	0.0000	0.0000
AID362red	0.4965	0.0000	0.0000
AID373AID439red	0.5000	0.0000	0.0000
AID373red	0.4997	0.0000	0.0000
AID456red	0.4992	0.0000	0.0000
AID604	0.4991	0.0000	0.0000
AID604AID644_AllRed	0.4997	0.0000	0.0000
AID687AID721red	0.4998	0.0000	0.0000
AID687red	0.4992	0.0000	0.0000
AID688red	0.4977	0.0000	0.0000
AID721morered	0.4375	0.0000	0.0000
AID721red	0.3571	-0.2857	0.0000
AID746AID1284red	0.4997	0.0000	0.0000
AID746red	0.4985	0.0000	0.0000
aids	0.8324	0.6371	0.6628
air_pollution	0.1435	0.0223	0.0241
alcohol	0.3914	0.4283	0.4286
all-aml	0.8182	0.5714	0.6325
anneal	0.7442	0.8843	0.8862
antivirus	0.9119	0.8238	0.8238
anuran-f-b	0.4979	0.0000	0.0000
anxiety	0.1060	-0.0126	0.0000
apple-quality	0.7477	0.4950	0.4953
aps-failure	0.8266	0.6531	0.6532
arabidopsis1%	0.4980	0.0000	0.0000
arcene	0.6284	0.2553	0.2568
arrhythmia	0.6977	0.6868	0.6911
auction	0.8828	0.7363	0.7633
audiology	0.7762	0.8490	0.8528
audit-risk	1.0000	1.0000	1.0000
autism-adolescent	1.0000	1.0000	1.0000
autism-adult	1.0000	1.0000	1.0000
autism-child	1.0000	1.0000	1.0000
autos	0.6055	0.4558	0.5008
avila	0.8973	0.9907	0.9907
balance	0.5228	0.5459	0.5510
bank	0.7778	0.5557	0.5557
bankruptcy	0.9593	0.9153	0.9186
bio	0.8734	0.7219	0.7436
biodeg	0.8780	0.7553	0.7560
biomed	0.9529	0.9014	0.9058
Continued on next page			

Dataset	F1-macro	Kappa	MCC
bitcoin10%	0.0827	0.0000	0.0000
body-perf	0.7204	0.6269	0.6305
brain-tumor	0.5170	0.0294	0.0336
breast-cancer	0.7126	0.3824	0.4196
breast-cancer-ma	0.3529	0.0000	0.0000
breast-tissue	0.7179	0.6733	0.6869
bridges	0.6525	0.6970	0.7098
bub12at310k-hg16-17	0.6912	0.3772	0.3811
cad	0.9206	0.8413	0.8413
cancer	0.9844	0.9684	0.9688
cancer-uae	0.2937	-0.0425	0.0000
car-insurance	0.8141	0.6280	0.6281
cardiotocography-nsp	0.8569	0.8001	0.8029
cardiovascular	0.7371	0.4724	0.4741
cargo2k	1.0000	1.0000	1.0000
cars	0.7916	0.7315	0.7417
ccds10%	0.4902	0.0000	0.0000
cdc_diabetes	0.4130	0.1313	0.1975
census	0.7530	0.4559	0.4945
cervical-B	0.8563	0.7088	0.7122
cervical-H	0.8728	0.7101	0.7420
cervical-S	0.8495	0.6895	0.6980
children-anemia	0.9342	0.9116	0.9126
chrom19	0.8685	0.7289	0.7359
chrom211%	0.4998	0.0000	0.0000
churn	0.7084	0.3828	0.4108
cjs	1.0000	1.0000	1.0000
ckd	1.0000	1.0000	1.0000
clave	0.6705	0.7086	0.7127
cll_sub_111	0.3639	-0.0667	0.0000
cmc	0.5614	0.3564	0.3580
cnae-9	0.9207	0.9062	0.9073
codon_usage	0.7510	0.8853	0.8855
coil20	0.9542	0.9488	0.9492
college	0.8107	0.6109	0.6207
collins	0.6954	0.8896	0.8924
colon-tumor	0.7500	0.4000	0.5000
colposcopies-1	0.6487	0.2965	0.2974
colposcopies-2	0.7264	0.3176	0.4345
colposcopies-4	0.6025	0.1831	0.2006
colposcopies-5	0.6238	0.2077	0.2360
colposcopies-c	0.5383	0.0645	0.0730
column-2c	0.8342	0.6173	0.6682
column-3c	0.7844	0.6771	0.6942
connect-4	0.7083	0.5532	0.5911
coupon	0.6851	0.3597	0.3698
covtype	0.0769	0.0000	0.0000
covtypeCD	0.9485	0.8964	0.8969
covtypeT	0.8680	0.7292	0.7353
crabs	0.8521	0.8000	0.8027
creditcard_trans	0.4996	0.0000	0.0000
crowdsourced	0.8050	0.8548	0.8552
cryotherapy	0.7404	0.3721	0.4781
cultivars	0.3062	0.3226	0.3269
cybersecurity	0.1732	0.0069	0.0069
cyclopentane	0.5763	0.1239	0.1492
cylinder-bands	0.6666	0.3151	0.3331
datatrieve	0.3500	-0.1471	0.0000
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Dataset	F1-macro	Kappa	MCC
dating	0.1058	0.0062	0.0062
dbworld	1.0000	1.0000	1.0000
default	0.7128	0.3858	0.4190
dementia	0.9803	0.9599	0.9606
deposit	0.7271	0.4503	0.4535
depressed	0.4542	0.0000	0.0000
dermatology	0.8062	0.7958	0.7980
desharnais	0.6525	0.4286	0.4763
df_final	0.6056	0.4217	0.4410
DIA	0.5818	0.1628	0.1635
diabetes-100k	0.8930	0.7612	0.7839
diagnosis	1.0000	1.0000	1.0000
diamonds	1.0000	1.0000	1.0000
diamonds_all	0.7779	0.6847	0.6887
dishonest	1.0000	1.0000	1.0000
dlbcl-nih	0.4000	-0.2000	0.0000
dlbcl-stanford	0.2857	0.0000	0.0000
dna0.1%	0.4993	0.0000	0.0000
dota2	0.5766	0.1520	0.1532
drebin	0.9615	0.9229	0.9229
dropout	0.6467	0.5734	0.5940
ecoli	0.7465	0.8359	0.8380
ecoliCP-IM	1.0000	1.0000	1.0000
ecoliM	0.8253	0.6341	0.6500
ecoliMU	0.4762	0.0000	0.0000
ecoliOM	0.7339	0.4677	0.4677
ecommerce	0.2332	-0.0260	0.0000
euthyroid	0.9106	0.8212	0.8212
fakenews	0.3355	0.0000	0.0000
fbis-wc	0.7705	0.7690	0.7720
finance	0.3108	0.0000	0.0000
financial-risk	0.7257	0.8430	0.8434
flags	0.5042	0.5666	0.5810
forest	0.7918	0.7629	0.7633
gas	0.9817	0.9782	0.9782
gastrointestinal	0.7980	0.6690	0.7104
gender	0.4663	0.1787	0.1919
german	0.6352	0.2677	0.2703
gestures	0.9112	0.8813	0.8819
gina	0.8820	0.7634	0.7640
gisette	0.9415	0.8829	0.8830
glass	0.7405	0.4970	0.5172
glass-g2	0.8118	0.5556	0.6202
glassBWFP	0.9529	0.9014	0.9058
glassBWNFP	0.7042	0.4000	0.4082
glassContainers	0.4762	0.0000	0.0000
glassNW	0.6494	0.2953	0.2983
glassTableware	0.4884	0.0000	0.0000
GlaucomaM	0.7389	0.4751	0.4778
gli_85	0.2000	0.0000	0.0000
glioma	0.8416	0.7127	0.7565
glioma-grade	0.8845	0.7610	0.7689
green	0.5238	0.0476	0.0476
gsalc	0.5219	0.4783	0.5159
haberman	0.6011	0.2012	0.2020
hapt	0.7873	0.9308	0.9309
har	0.9823	0.9787	0.9787
harth10%	0.0095	0.0000	0.0000
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Dataset	F1-macro	Kappa	MCC
health-activity	0.2313	-0.0074	0.0000
heart	0.7284	0.4553	0.4567
heart-c	0.8001	0.5946	0.6001
heart-failure	0.9557	0.9113	0.9114
heart-quantum	0.8768	0.7244	0.7536
hepatitis	0.7266	0.4444	0.4523
higher	0.2902	0.1765	0.1864
hinselmann	0.4444	0.0000	0.0000
hitters	0.9373	0.8745	0.8745
hiv1-proteasa	0.7801	0.5370	0.5571
hiva	0.4910	0.0000	0.0000
horse	0.4143	0.0554	0.0627
hotel-reservartions	0.8608	0.7192	0.7215
hr	0.4633	0.0000	0.0000
ht-sensor	0.9978	0.9966	0.9966
htru2	0.9301	0.8580	0.8601
hypothyroid	0.6924	0.8938	0.8948
immuno-therapy	0.6786	0.3571	0.3571
ionosphere	0.7235	0.4422	0.4466
iris	0.9333	0.8993	0.9054
irish	0.9800	0.9592	0.9600
isolet	0.8718	0.8625	0.8629
jm1	0.6190	0.0412	0.1211
jvowels	0.9548	0.9511	0.9512
kc1-class-level-numericdefect	0.1636	0.0000	0.0000
kc1-class-level-top5percentDF	0.8438	0.6341	0.6814
kc2	0.6298	0.2394	0.2551
kdc-4007	0.0345	0.0000	0.0000
kddcup991%	0.7100	0.9935	0.9935
kidney	0.1778	0.0000	0.0000
kidney-disease	0.9743	0.9474	0.9487
la2s-wc	0.8524	0.8336	0.8364
labor	0.8537	0.6667	0.7071
leaf	0.7388	0.6917	0.6962
led24	0.4768	0.4886	0.4943
lenses	0.1667	0.0000	0.0000
letter	0.8976	0.8923	0.8924
linkage1%	0.8671	0.7157	0.7318
loan	0.9777	0.9553	0.9554
lrs	0.5725	0.6636	0.6677
lung_discrete	1.0000	1.0000	1.0000
lymphography	0.4872	0.3913	0.4245
lymphoma2	0.6222	0.7000	0.7120
machine-failure	0.8800	0.7599	0.7601
magic04	0.8367	0.6708	0.6734
malware	0.9119	0.8238	0.8238
mammography	0.8434	0.6867	0.6868
marketing	0.6878	0.3535	0.3708
mba	0.3041	0.0000	0.0000
mental-disorders	0.8537	0.7778	0.7926
messidor	0.6120	0.2194	0.2239
meter-A	0.4667	-0.0667	0.0000
meter-B	0.4579	0.1509	0.1538
meter-C	0.8537	0.7750	0.7949
meter-D	0.6869	0.7662	0.7697
mfeat-fac	0.9417	0.9333	0.9338
mfeat-fou	0.7874	0.7667	0.7672
mfeat-kar	0.9061	0.8944	0.8948
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Dataset	F1-macro	Kappa	MCC
mfeat-mor	0.6856	0.6556	0.6568
mfeat-pix	0.9365	0.9278	0.9282
mfeat-zer	0.7499	0.7278	0.7294
mice-prot	1.0000	1.0000	1.0000
milk	1.0000	1.0000	1.0000
mines	0.6208	0.5222	0.5273
mobile	0.8382	0.8255	0.8261
monks-1	0.9272	0.8545	0.8545
monks-3	0.9642	0.9285	0.9285
mushroom	0.9939	0.9877	0.9878
music	0.4736	0.3372	0.3377
MUT_ci300400a_cdk_ECFP2	0.7335	0.4666	0.4670
MUT_ci300400a_cdk_ECFP4	0.7423	0.4845	0.4845
MUT_ci300400a_cdk_ECFP6	0.6990	0.3977	0.3981
MUT_ci300400a_cdk_ESTATE	0.7230	0.4459	0.4459
MUT_ci300400a_cdk_EXTENDED	0.7523	0.5031	0.5046
MUT_ci300400a_cdk_FCFP2	0.7184	0.4364	0.4369
MUT_ci300400a_cdk_FCFP4	0.7123	0.4226	0.4246
MUT_ci300400a_cdk_FCFP6	0.7503	0.4875	0.5007
MUT_ci300400a_cdk_MACCS	0.7258	0.4449	0.4514
MUT_ci300400a_cdk_PUBCHEM	0.7432	0.4820	0.4863
MUT_ci300400a_cdk_STANDARD	0.7216	0.4403	0.4432
MUT_ci300400a_rdkit_descriptors	0.7651	0.5302	0.5303
myocardial	0.3102	0.3867	0.4911
naticusdroid	0.9584	0.9168	0.9169
nci9	0.6061	0.6000	0.6708
ncRNA10%	0.6289	0.8026	0.8057
neo	0.6810	0.1882	0.2945
new-thyroid	0.8596	0.7586	0.7817
new-thyroidT	1.0000	1.0000	1.0000
newspop	0.6616	0.3219	0.3231
NHANES_age_prediction	1.0000	1.0000	1.0000
nomao	0.9336	0.8668	0.8672
nursery	0.9840	0.9830	0.9830
obesity	0.9285	0.9170	0.9171
obs	0.9606	0.9450	0.9465
oh0-wc	0.8347	0.8414	0.8428
oh10-wc	0.7537	0.7063	0.7088
oh15-wc	0.8264	0.7899	0.7928
oh5-wc	0.8582	0.8133	0.8185
olive	0.8586	0.8246	0.8273
optdigits	0.9716	0.9664	0.9665
orlraws10P	0.7467	0.7778	0.7957
ozone1hr	0.4909	0.0000	0.0000
p53-mutants10%	0.4992	0.0000	0.0000
parkinson	1.0000	1.0000	1.0000
particle	0.9071	0.8135	0.8141
pc1	0.4813	0.0000	0.0000
pcmac	0.3681	0.0000	0.0000
pediatric-leukemia	0.5263	0.5367	0.5412
pendigits	0.9591	0.9545	0.9545
period-10f	0.4208	-0.1538	0.0000
persistence	0.7810	0.5556	0.5618
personalities	0.9456	0.9419	0.9419
pet-adoption	0.9316	0.8622	0.8631
phishing	0.9356	0.8708	0.8711
PhiUSIL10%	0.9970	0.9939	0.9940
phy	0.7122	0.4199	0.4244
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Dataset	F1-macro	Kappa	MCC
pima	0.6053	0.1645	0.2034
pirvision	0.9877	0.9774	0.9775
placement	0.7814	0.5584	0.5627
plrx	0.4194	0.0000	0.0000
polya	0.7585	0.5126	0.5168
popularity	0.4883	0.2256	0.2549
post-operative	0.7568	0.4000	0.5000
postures	0.9807	0.9761	0.9761
pred-tox_mutagen_ref-desc	0.5763	0.1471	0.1525
prestige	0.7435	0.5179	0.5929
primary-tumor	0.2035	0.2011	0.2177
processed	1.0000	1.0000	1.0000
profb	0.5703	0.1402	0.1405
promoters	0.7917	0.5833	0.5833
puc-rio	0.9818	0.9853	0.9853
pufs-1281%	0.3334	0.0000	0.0000
pufs-6410%	0.3334	0.0000	0.0000
pulsar	0.9361	0.8705	0.8720
raisin	0.8305	0.6444	0.6610
rejafada	1.0000	1.0000	1.0000
relathe	0.9453	0.8873	0.8905
rice	0.9828	0.9656	0.9656
rocket	0.6017	0.1752	0.2002
RT_IOT2022	0.9519	0.9929	0.9929
satimage	0.8901	0.8809	0.8815
scadi	0.6600	0.6316	0.6667
schiller	0.4000	-0.1739	0.0000
sclerosis	1.0000	1.0000	1.0000
secom	0.5429	0.0808	0.0837
secondary_mushroom	0.9985	0.9970	0.9970
seeds	0.8095	0.7143	0.7143
segment	0.9440	0.9291	0.9293
segmentation	0.8172	0.6277	0.6344
segmentO	0.9828	0.9655	0.9655
seismic	0.4830	0.0000	0.0000
sens-2-gram	0.4648	0.0000	0.0000
sens-3-gram	0.5838	0.0286	0.0793
sens-4-gram	0.5313	0.0179	0.0361
sensorless	0.9877	0.9865	0.9865
shoppers	0.7419	0.4277	0.4730
sick	0.8564	0.6843	0.7093
sirtuin6	1.0000	1.0000	1.0000
smarket	1.0000	1.0000	1.0000
smk_can_187	0.3214	0.0000	0.0000
smoking	0.7326	0.4646	0.4652
soil_pollution	0.1855	-0.0168	0.0000
solar-flare	0.5446	0.6747	0.6830
sonar	0.6000	0.2000	0.2000
soybean	0.8654	0.8870	0.8885
spam-detection	0.8256	0.6204	0.6470
spambase	0.9110	0.8205	0.8220
spect	0.6787	0.3478	0.3563
spectf	0.7481	0.4948	0.4961
spectrometer	0.5427	0.6008	0.6061
squash-unstored	0.8240	0.6157	0.6626
startup	0.9885	0.9767	0.9769
steel_industry	0.8756	0.8369	0.8370
stellar	0.9700	0.9536	0.9536
Continued on next page			

Dataset	F1-macro	Kappa	MCC
stock	0.8452	0.6903	0.6905
stockb	0.9825	0.9736	0.9738
streaming	0.9920	0.9838	0.9839
stress	0.9697	0.9603	0.9609
student-depression	0.8237	0.6457	0.6473
student-habits	0.2122	0.0438	0.0452
student-lifestyle	0.3710	0.3708	0.3893
student-weekend	0.3423	0.1743	0.1752
student-workday	0.1651	0.0000	0.0000
studentap	0.2593	-0.0636	0.0000
swarm_aligned	0.9981	0.9961	0.9961
swarm_flocking	0.9971	0.9942	0.9942
swarm_grouped	0.9969	0.9938	0.9938
tae	0.4553	0.2000	0.2041
telco-churn	0.8535	0.7039	0.7068
texture	0.9654	0.9599	0.9600
theorem	1.0000	1.0000	1.0000
thoracic	0.4535	-0.0387	0.0000
Thyroid_Diff	0.8578	0.7040	0.7154
tis	0.8238	0.6476	0.6476
titanic	0.7833	0.5545	0.5660
tourist	0.5250	0.6364	0.6848
trains	0.3333	0.0000	0.0000
transfusion	0.5777	0.1549	0.1553
tuandromd	0.9507	0.9005	0.9014
turkish	0.6997	0.6000	0.6005
tvnews	0.9002	0.8004	0.8004
ur3_cobotops_grip	0.4917	0.0000	0.0000
ur3_cobotops_stop	0.4906	0.0000	0.0000
urban	0.7833	0.7727	0.7735
ustilago10%	0.4973	0.0000	0.0000
vehicle	0.6739	0.6295	0.6332
vote	0.8617	0.7202	0.7233
vowel	0.7270	0.6667	0.6757
wap-wc	0.5685	0.6482	0.6515
warpar10p	0.6149	0.6510	0.6646
warppie10p	0.9583	0.9470	0.9494
waveform	0.8017	0.7029	0.7032
weather-related	0.9696	0.9651	0.9653
weight-lift	0.9936	0.9916	0.9916
white-clover	0.3750	-0.2000	0.0000
wifi-loc	0.9800	0.9733	0.9734
wilt	0.8465	0.6931	0.6931
wine	0.9497	0.9000	0.9057
winequality-red	0.3351	0.3984	0.3997
winequality-white	0.4044	0.4025	0.4030
winnipeg10%	0.9812	0.9755	0.9756
wisc.bc	0.9243	0.8462	0.8487
yale	0.4267	0.4667	0.4829
yeast	0.3965	0.4648	0.4689
yeastCYT-POX	0.4896	0.0000	0.0000
yeastEXC	0.4932	0.0000	0.0000
yeastME1	0.4932	0.0000	0.0000
yeastME2	0.4879	0.0000	0.0000
zip	0.9328	0.9314	0.9314

Table 7: Detailed results for C5.0RULES

Dataset	F1-macro	Kappa	MCC
abalone	0.1222	0.0847	0.0822
abalone19	0.4982	0.0000	0.0000
accelerometer	0.6411	0.1717	0.2343
ads	0.9413	0.8785	0.8824
adult	0.8059	0.6071	0.6114
advanced-iot	1.0000	1.0000	1.0000
AID_1431	0.4772	0.0000	0.0000
AID_1431_KlekotaRothFingerprinter	0.4772	0.0000	0.0000
AID_1431_MACCSFingerprinter	0.4772	0.0000	0.0000
AID_1878	0.7181	0.3777	0.4245
AID_602330	0.4894	0.0000	0.0000
AID_652128	0.4663	0.1398	0.2732
AID1284red	0.4627	0.0000	0.0000
AID1608Morered	0.4772	-0.0311	0.0000
AID1608red	0.4850	0.0000	0.0000
AID362red	0.4965	0.0000	0.0000
AID373AID439red	0.5000	0.0000	0.0000
AID373red	0.4997	0.0000	0.0000
AID456red	0.4992	0.0000	0.0000
AID604	0.4991	0.0000	0.0000
AID604AID644_AllRed	0.4997	0.0000	0.0000
AID687AID721red	0.4998	0.0000	0.0000
AID687red	0.4992	0.0000	0.0000
AID688red	0.4977	0.0000	0.0000
AID721morered	0.4000	-0.1739	0.0000
AID721red	0.4375	0.0000	0.0000
AID746AID1284red	0.4997	0.0000	0.0000
AID746red	0.4985	0.0000	0.0000
aids	0.8263	0.6462	0.6523
air_pollution	0.1952	0.0121	0.0382
alcohol	0.7903	0.7392	0.7464
all-aml	0.6250	0.2500	0.2500
anneal	1.0000	1.0000	1.0000
antivirus	1.0000	1.0000	1.0000
anuran-f-b	0.8849	0.7671	0.7695
anxiety	0.0954	-0.0216	0.0000
apple-quality	0.8276	0.6550	0.6552
aps-failure	0.8604	0.7122	0.7197
arabidopsis1%	0.4978	-0.0016	0.0000
arcene	0.8488	0.6939	0.6975
arrhythmia	0.5921	0.6087	0.6149
auction	0.9777	0.9544	0.9554
audiology	0.7016	0.7874	0.7913
audit-risk	1.0000	1.0000	1.0000
autism-adolescent	1.0000	1.0000	1.0000
autism-adult	1.0000	1.0000	1.0000
autism-child	1.0000	1.0000	1.0000
autos	0.8000	0.6633	0.6905
avila	0.7828	0.6927	0.6987
balance	0.5994	0.7571	0.7632
bank	0.7539	0.5069	0.5076
bankruptcy	1.0000	1.0000	1.0000
bio	0.8933	0.7751	0.7855
biodeg	0.8426	0.6830	0.6852
biomed	1.0000	1.0000	1.0000
Continued on next page			

Dataset	F1-macro	Kappa	MCC
bitcoin10%	0.0458	0.0048	0.0339
body-perf	0.7314	0.6388	0.6400
brain-tumor	0.5079	0.0058	0.0059
breast-cancer	0.7795	0.4615	0.5477
breast-cancer-ma	0.2667	-0.4667	0.0000
breast-tissue	0.6525	0.5600	0.5774
bridges	0.4750	0.5161	0.5521
bub12at310k-hg16-17	0.6744	0.3349	0.3451
cad	1.0000	1.0000	1.0000
cancer	1.0000	1.0000	1.0000
cancer-uae	0.2967	-0.0441	0.0000
car-insurance	0.7760	0.5330	0.5456
cardiotocography-nsp	0.8628	0.7863	0.7866
cardiovascular	0.7379	0.4730	0.4757
cargo2k	1.0000	1.0000	1.0000
cars	0.7916	0.7315	0.7417
ccds10%	0.5776	0.1360	0.1472
cdc_diabetes	0.4100	0.1528	0.2012
census	0.7594	0.5002	0.5227
cervical-B	0.8563	0.7088	0.7122
cervical-H	0.8108	0.5409	0.6089
cervical-S	0.8890	0.7514	0.7758
children-anemia	0.3896	0.3038	0.3085
chrom19	0.4998	0.0000	0.0000
chrom211%	0.4998	0.0000	0.0000
churn	0.7457	0.4688	0.4883
cjs	1.0000	1.0000	1.0000
ckd	1.0000	1.0000	1.0000
clave	0.6143	0.6635	0.6656
cll_sub_111	0.7222	0.4545	0.4545
cmc	0.5794	0.3830	0.3838
cnae-9	0.9235	0.9062	0.9079
codon_usage	0.7168	0.8328	0.8330
coil20	0.9409	0.9342	0.9348
college	0.9055	0.8092	0.8109
collins	1.0000	1.0000	1.0000
colon-tumor	0.7500	0.4000	0.5000
colposcopies-1	0.6578	0.3029	0.3154
colposcopies-2	0.5521	0.0807	0.0995
colposcopies-4	0.7810	0.4649	0.5504
colposcopies-5	0.5736	0.1386	0.1447
colposcopies-c	0.7767	0.5511	0.5533
column-2c	0.8524	0.7048	0.7048
column-3c	0.7914	0.7395	0.7408
connect-4	0.7652	0.6842	0.6894
coupon	0.7320	0.4628	0.4639
covtype	0.5444	0.5470	0.5481
covtypeCD	0.9745	0.9490	0.9491
covtypeT	0.9214	0.8416	0.8426
crabs	0.8681	0.8000	0.8137
creditcard_trans	0.8862	0.7433	0.7690
crowdsourced	0.7700	0.8183	0.8188
cryotherapy	0.7404	0.3721	0.4781
cultivars	0.3573	0.4920	0.4995
cybersecurity	0.1453	-0.0299	0.0000
cyclopentane	0.7105	0.3684	0.4183
cylinder-bands	0.8308	0.6611	0.6616
datatrieve	0.4800	0.0000	0.0000
Continued on next page			

Dataset	F1-macro	Kappa	MCC
dating	0.0952	-0.0062	0.0000
dbworld	0.8654	0.6957	0.7303
default	0.7184	0.4077	0.4323
dementia	1.0000	1.0000	1.0000
deposit	0.7420	0.4797	0.4832
depressed	0.5405	0.0576	0.0716
dermatology	0.9429	0.9325	0.9325
desharnais	0.4869	0.2258	0.2354
df_final	0.5590	0.5000	0.5885
DIA	0.7616	0.5122	0.5222
diabetes-100k	0.6814	0.2257	0.3183
diagnosis	1.0000	1.0000	1.0000
diamonds	1.0000	1.0000	1.0000
diamonds_all	0.7770	0.6859	0.6881
dishonest	1.0000	1.0000	1.0000
dlbcl-nih	0.5353	0.0704	0.0707
dlbcl-stanford	0.8333	0.6154	0.6667
dna0.1%	0.4993	0.0000	0.0000
dota2	0.5751	0.1489	0.1501
drebin	0.9750	0.9529	0.9568
dropout	0.6477	0.5391	0.5394
ecoli	0.7121	0.7957	0.7966
ecoliCP-IM	1.0000	1.0000	1.0000
ecoliM	0.8825	0.7626	0.7650
ecoliMU	0.6630	0.2667	0.3130
ecoliOM	0.8514	0.6526	0.6960
ecommerce	0.2682	0.0232	0.0242
euthyroid	0.9166	0.8318	0.8331
fakenews	0.5138	0.0182	0.0184
fbis-wc	0.6589	0.6732	0.6750
finance	0.3544	0.0000	0.0000
financial-risk	0.6457	0.7382	0.7446
flags	0.4974	0.5666	0.5701
forest	0.8756	0.8405	0.8462
gas	0.9760	0.9721	0.9721
gastrointestinal	0.9370	0.9018	0.9077
gender	0.4469	0.1400	0.1457
german	0.5934	0.1822	0.1864
gestures	0.8481	0.7968	0.7968
gina	0.9308	0.8616	0.8616
gisette	0.9514	0.9029	0.9029
glass	0.6786	0.5333	0.5457
glass-g2	0.8091	0.6129	0.6181
glassBWFP	0.9529	0.9014	0.9058
glassBWNFP	0.6387	0.2759	0.2773
glassContainers	0.7250	0.4500	0.4500
glassNW	0.9340	0.8591	0.8677
glassTableware	0.4884	0.0000	0.0000
GlaucomaM	0.7889	0.5778	0.5778
gli_85	0.8730	0.7143	0.7454
glioma	0.8333	0.7059	0.7500
glioma-grade	0.8845	0.7610	0.7689
green	0.7619	0.5238	0.5238
gsalc	0.7358	0.7313	0.7660
haberman	0.4231	0.0000	0.0000
hapt	0.7631	0.9156	0.9157
har	0.9707	0.9652	0.9652
harth10%	0.2348	0.5138	0.5397
Continued on next page			

Dataset	F1-macro	Kappa	MCC
health-activity	0.2093	-0.0683	0.0000
heart	0.8845	0.7666	0.7689
heart-c	0.8683	0.7297	0.7365
heart-failure	0.9791	0.9579	0.9581
heart-quantum	0.8768	0.7244	0.7536
hepatitis	0.7266	0.4444	0.4523
higher	0.2500	0.0610	0.0625
hinselmann	0.4118	-0.1538	0.0000
hitters	0.9373	0.8745	0.8745
hiv1-proteasa	0.7934	0.5719	0.5850
hiva	0.4897	-0.0084	0.0000
horse	0.6622	0.4462	0.4502
hotel-reservartions	0.8389	0.6494	0.6738
hr	0.4614	0.0000	0.0000
ht-sensor	0.9995	0.9993	0.9993
htru2	0.9331	0.8658	0.8662
hypothyroid	0.7321	0.9519	0.9521
immuno-therapy	0.6786	0.3571	0.3571
ionosphere	0.9671	0.9320	0.9342
iris	1.0000	1.0000	1.0000
irish	1.0000	1.0000	1.0000
isolet	0.8330	0.8184	0.8191
jm1	0.6098	0.1846	0.2097
jvowels	0.9149	0.9090	0.9091
kc1-class-level-numericdefect	0.1636	0.0000	0.0000
kc1-class-level-top5percentDF	0.4643	-0.0714	0.0000
kc2	0.5420	0.0574	0.0738
kdc-4007	0.3456	0.1527	0.2503
kddcup991%	0.7988	0.9955	0.9955
kidney	0.1943	-0.0046	0.0000
kidney-disease	1.0000	1.0000	1.0000
la2s-wc	0.7172	0.6632	0.6705
labor	0.8537	0.6667	0.7071
leaf	0.3302	0.5678	0.5818
led24	0.6758	0.6034	0.6068
lenses	1.0000	1.0000	1.0000
letter	0.9711	0.9606	0.9498
linkage1%	0.9755	0.9498	0.9510
loan	0.9850	0.9700	0.9701
lrs	0.8065	0.7911	0.8003
lung_discrete	0.6000	0.5102	0.5455
lymphography	0.4934	0.4510	0.4560
lymphoma2	0.4000	0.5500	0.5693
machine-failure	0.9019	0.8035	0.8037
magic04	0.8503	0.6975	0.7006
malware	1.0000	1.0000	0.9990
mammography	0.8017	0.6000	0.6034
marketing	0.7337	0.3105	0.4313
mba	0.3453	0.0089	0.0160
mental-disorders	0.8386	0.7685	0.7873
messidor	0.6190	0.2356	0.2380
meter-A	0.6522	0.1579	0.2928
meter-B	1.0000	1.0000	1.0000
meter-C	0.7875	0.7702	0.7735
meter-D	0.9175	0.9217	0.9260
mfeat-fac	0.8953	0.8833	0.8838
mfeat-fou	0.7674	0.7444	0.7449
mfeat-kar	0.8426	0.8222	0.8232
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Dataset	F1-macro	Kappa	MCC
mfeat-mor	0.7187	0.7048	0.6986
mfeat-pix	0.9117	0.9000	0.9006
mfeat-zer	0.7403	0.7056	0.7063
mice-prot	1.0000	1.0000	1.0000
milk	1.0000	1.0000	1.0000
mines	0.4328	0.3437	0.3510
mobile	0.6950	0.6867	0.6874
monks-1	1.0000	1.0000	1.0000
monks-3	0.9824	0.9642	0.9648
mushroom	1.0000	1.0000	1.0000
music	0.5061	0.3657	0.3707
MUT_ci300400a_cdk_ECFP2	0.7944	0.5887	0.5888
MUT_ci300400a_cdk_ECFP4	0.7897	0.5791	0.5794
MUT_ci300400a_cdk_ECFP6	0.7304	0.4595	0.4607
MUT_ci300400a_cdk_ESTATE	0.7545	0.5086	0.5090
MUT_ci300400a_cdk_EXTENDED	0.8146	0.6291	0.6292
MUT_ci300400a_cdk_FCFP2	0.8164	0.6315	0.6328
MUT_ci300400a_cdk_FCFP4	0.7993	0.5986	0.5986
MUT_ci300400a_cdk_FCFP6	0.7686	0.5368	0.5372
MUT_ci300400a_cdk_MACCS	0.8186	0.6350	0.6373
MUT_ci300400a_cdk_PUBCHEM	0.8490	0.6975	0.6980
MUT_ci300400a_cdk_STANDARD	0.7866	0.5724	0.5733
MUT_ci300400a_rdkit_descriptors	0.8301	0.6597	0.6603
myocardial	0.3102	0.3867	0.4911
naticusdroid	0.9693	0.9386	0.9386
nci9	0.3333	0.2000	0.2148
ncRNA10%	0.6213	0.7945	0.7974
neo	0.6897	0.2372	0.3305
new-thyroid	1.0000	1.0000	1.0000
new-thyroidT	0.8981	0.7742	0.7947
newspop	0.6345	0.2691	0.2691
NHANES_age_prediction	1.0000	1.0000	1.0000
nomao	0.9470	0.8939	0.8939
nursery	0.9994	0.9989	0.9989
obesity	0.8199	0.8018	0.8167
obs	1.0000	1.0000	1.0000
oh0-wc	0.8853	0.8406	0.8431
oh10-wc	0.6637	0.6287	0.6337
oh15-wc	0.8174	0.7777	0.7800
oh5-wc	0.7518	0.6640	0.6678
olive	0.9385	0.9251	0.9271
optdigits	0.9031	0.8892	0.8895
orlraws10P	0.6160	0.6667	0.6901
ozone1hr	0.4879	-0.0181	0.0000
p53-mutants10%	0.4992	0.0000	0.0000
parkinson	0.9914	0.9827	0.9828
particle	0.9064	0.8128	0.8128
pc1	0.6277	0.1763	0.2241
pcmac	0.4802	-0.0349	0.0000
pediatric-leukemia	0.7135	0.7119	0.7157
pendigits	0.9632	0.9595	0.9596
period-10f	0.5000	0.0000	0.0000
persistence	0.7002	0.3701	0.4024
personalities	1.0000	0.9998	0.9729
pet-adoption	0.7866	0.5592	0.5665
phishing	0.9657	0.9315	0.9315
PhiUSIL10%	1.0000	1.0000	1.0000
phy	0.7177	0.4351	0.4353
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Dataset	F1-macro	Kappa	MCC
pima	0.7027	0.3824	0.4041
pirvision	0.9874	0.9772	0.9772
placement	0.7848	0.5680	0.5696
plrx	0.4194	0.0000	0.0000
polya	0.6995	0.3974	0.3989
popularity	0.4443	0.2200	0.2267
post-operative	0.4000	0.0000	0.0000
postures	0.9849	0.9814	0.9814
pred-tox_mutagen_ref-desc	0.7230	0.4412	0.4460
prestige	0.6573	0.4808	0.5112
primary-tumor	0.3348	0.3476	0.3632
processed	1.0000	1.0000	1.0000
profb	0.5498	0.0993	0.0995
promoters	0.7917	0.5833	0.5833
puc-rio	0.9800	0.9851	0.9851
pufs-1281%	0.4950	-0.0100	0.0000
pufs-6410%	0.3334	0.0000	0.0000
pulsar	0.9486	0.8958	0.8971
raisin	0.8889	0.7778	0.7778
rejabatada	1.0000	1.0000	1.0000
relathe	1.0000	1.0000	1.0000
rice	0.9878	0.9755	0.9756
rocket	0.6553	0.3091	0.3105
RT_IOT2022	0.9798	0.9959	0.9959
satimage	0.8534	0.8430	0.8431
scadi	0.6984	0.6316	0.6860
schiller	1.0000	1.0000	1.0000
sclerosis	1.0000	1.0000	1.0000
secom	0.4783	-0.0305	0.0000
secondary_mushroom	0.9997	0.9993	0.9993
seeds	0.9077	0.8571	0.8601
segment	0.9615	0.9494	0.9494
segmentation	0.8073	0.6115	0.6146
segmentO	0.9916	0.9830	0.9831
seismic	0.4830	0.0000	0.0000
sens-2-gram	0.5773	0.1204	0.1417
sens-3-gram	0.6105	0.2117	0.2184
sens-4-gram	0.6106	0.2160	0.2197
sensorless	0.9915	0.9906	0.9906
shoppers	0.7560	0.5052	0.5110
sick	0.9444	0.8866	0.8886
sirtuin6	1.0000	1.0000	1.0000
smarket	0.9921	0.9840	0.9841
smk_can_187	0.3167	-0.3646	0.0000
smoking	0.7408	0.4815	0.4816
soil_pollution	0.2040	0.0043	0.0043
solar-flare	0.6382	0.7320	0.7358
sonar	0.6021	0.2000	0.2041
soybean	0.9333	0.9195	0.9210
spam-detection	0.8671	0.7340	0.7341
spambase	0.9316	0.8631	0.8632
spect	0.5452	0.0899	0.0904
spectf	0.7481	0.4948	0.4961
spectrometer	0.4451	0.5133	0.5225
squash-unstored	0.7059	0.2857	0.4082
startup	0.7842	0.4933	0.5733
steel_industry	0.8772	0.8411	0.8412
stellar	0.9735	0.9595	0.9595
Continued on next page			

Dataset	F1-macro	Kappa	MCC
stock	0.9654	0.9306	0.9309
stockb	0.9956	0.9934	0.9934
streaming	0.9960	0.9919	0.9919
stress	0.9690	0.9603	0.9609
student-depression	0.7085	0.3822	0.3966
student-habits	0.1806	-0.0894	0.0000
student-lifestyle	0.3191	0.3065	0.3087
student-weekend	0.3207	0.1450	0.1460
student-workday	0.2463	0.1520	0.1639
studentap	0.2968	0.0545	0.0739
swarm_aligned	0.9981	0.9961	0.9961
swarm_flocking	0.9988	0.9975	0.9975
swarm_grouped	0.9996	0.9991	0.9991
tae	0.5072	0.2000	0.2182
telco-churn	0.8447	0.6522	0.6715
texture	0.9448	0.9359	0.9360
theorem	1.0000	1.0000	1.0000
thoracic	0.4598	0.0000	0.0000
Thyroid_Diff	0.9365	0.8648	0.8728
tis	0.8323	0.6639	0.6645
titanic	0.7934	0.5163	0.5813
tourist	0.3636	0.3684	0.4139
trains	0.3333	0.0000	0.0000
transfusion	0.5779	0.1519	0.1551
tuandromd	0.9722	0.9443	0.9443
turkish	0.6943	0.6000	0.6015
tvnews	0.9299	0.8590	0.8598
ur3_cobotops_grip	0.7604	0.4282	0.4972
ur3_cobotops_stop	0.7942	0.5860	0.5880
urban	0.8082	0.7721	0.7740
ustilago10%	0.6387	0.2609	0.2668
vehicle	0.7157	0.6782	0.6804
vote	0.8674	0.7220	0.7347
vowel	0.6317	0.5372	0.5488
wap-wc	0.5761	0.6506	0.6558
warpar10p	0.6160	0.7400	0.7553
warppie10p	0.9164	0.8939	0.8985
waveform	0.7846	0.6759	0.6762
weather-related	0.9786	0.9635	0.9795
weight-lift	0.9985	0.9984	0.9984
white-clover	0.2500	-0.5000	0.0000
wifi-loc	0.9850	0.9800	0.9800
wilt	0.9342	0.8685	0.8685
wine	0.8772	0.7914	0.7964
winequality-red	0.2996	0.3868	0.3941
winequality-white	0.3561	0.3286	0.3308
winnipeg10%	0.9846	0.9755	0.9756
wisc.bc	0.9623	0.9246	0.9246
yale	0.5106	0.5949	0.6080
yeast	0.3721	0.3860	0.3896
yeastCYT-POX	0.9047	0.7897	0.8078
yeastEXC	0.4879	-0.0237	0.0000
yeastME1	0.9318	0.8538	0.8630
yeastME2	0.7170	0.3825	0.4197
zip	0.8669	0.8638	0.8641

Table 8: Detailed results for CALIFOREST

Dataset	F1-macro	Kappa	MCC
abalone	0.1141	0.0567	0.0596
abalone19	0.4982	0.0000	0.0000
accelerometer	0.6052	0.1371	0.1771
ads	0.9145	0.8136	0.8281
advanced-iot	1.0000	1.0000	1.0000
AID_1431	0.4772	0.0000	0.0000
AID_1431_KlekotaRothFingerprinter	0.4772	0.0000	0.0000
AID_1431_MACCSFingerprinter	0.4772	0.0000	0.0000
AID_1878	0.4503	0.0000	0.0000
AID_602330	0.4894	0.0000	0.0000
AID_652128	0.3118	0.0000	0.0000
AID1284red	0.4627	0.0000	0.0000
AID1608Morered	0.4824	0.0000	0.0000
AID1608red	0.4850	0.0000	0.0000
AID362red	0.4965	0.0000	0.0000
AID456red	0.4992	0.0000	0.0000
AID721morered	0.4375	0.0000	0.0000
AID721red	0.4375	0.0000	0.0000
aids	0.8098	0.5965	0.6177
air_pollution	0.0826	0.0000	0.0000
alcohol	0.4935	0.6273	0.6355
all-aml	1.0000	1.0000	1.0000
anneal	0.7748	0.9296	0.9304
antivirus	1.0000	1.0000	1.0000
anuran-f-b	1.0000	1.0000	1.0000
anxiety	0.0408	-0.0393	0.0000
apple-quality	0.8378	0.6750	0.6757
arcene	0.7667	0.5098	0.5334
arrhythmia	0.6257	0.5647	0.5720
auction	0.8769	0.7535	0.7537
audiology	0.7734	0.8599	0.8420
audit-risk	1.0000	1.0000	1.0000
autism-adolescent	1.0000	1.0000	1.0000
autism-adult	1.0000	1.0000	1.0000
autism-child	1.0000	1.0000	1.0000
autos	0.7894	0.7315	0.7501
avila	0.9414	0.9516	0.9517
balance	0.6003	0.7569	0.7642
bankruptcy	1.0000	1.0000	1.0000
biodeg	0.8154	0.6257	0.6307
biomed	0.9529	0.9014	0.9058
body-perf	0.7297	0.6388	0.6399
brain-tumor	0.4926	-0.0083	0.0000
breast-cancer	0.4167	0.0000	0.0000
breast-cancer-ma	0.6553	0.2903	0.3105
breast-tissue	0.6780	0.5728	0.6020
bridges	0.4667	0.4828	0.5739
cad	0.9629	0.9231	0.9258
cancer	0.9696	0.9373	0.9392
cancer-uae	0.3999	0.0021	0.0319
car-insurance	0.7940	0.5877	0.5881
cardiotocography-nsp	0.8797	0.8017	0.8032
cardiovascular	0.7358	0.4674	0.4791
cargo2k	1.0000	1.0000	1.0000
cars	0.7251	0.6510	0.6611
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Dataset	F1-macro	Kappa	MCC
cervical-B	0.8563	0.7088	0.7122
cervical-H	0.8689	0.7378	0.7378
cervical-S	0.8890	0.7514	0.7758
children-anemia	0.9382	0.9115	0.9126
chrom211%	0.4998	0.0000	0.0000
churn	0.7487	0.4820	0.4954
cjs	0.9958	0.9956	0.9957
ckd	1.0000	1.0000	1.0000
clave	0.6365	0.6953	0.6969
cll_sub_111	0.5490	0.2800	0.4719
cmc	0.5792	0.3949	0.4030
cnae-9	0.9471	0.9375	0.9379
codon_usage	0.7483	0.8925	0.8928
coil20	0.9760	0.9708	0.9711
college	0.9018	0.8036	0.8036
collins	0.8861	0.8690	0.8720
colon-tumor	0.4000	0.0000	0.0000
colposcopies-1	0.6645	0.1271	0.2605
colposcopies-2	0.6915	0.2162	0.3482
colposcopies-4	0.4200	0.0000	0.0000
colposcopies-5	0.4528	0.0000	0.0000
colposcopies-c	0.6736	0.2984	0.3376
column-2c	0.8634	0.7195	0.7266
column-3c	0.6525	0.5739	0.5783
coupon	0.6936	0.3811	0.3870
covtypeCD	0.9524	0.9048	0.9048
covtypeT	0.8948	0.7856	0.7893
crabs	0.7143	0.6000	0.6145
crowdsourced	0.7338	0.8774	0.8779
cryotherapy	0.7404	0.3721	0.4781
cultivars	0.3046	0.3252	0.3229
cybersecurity	0.1238	0.0054	0.0063
cyclopentane	0.6657	0.3306	0.3315
cylinder-bands	0.7145	0.4288	0.4291
datatrieve	0.3810	-0.1404	0.0000
dbworld	1.0000	1.0000	1.0000
default	0.7211	0.3845	0.4235
dementia	1.0000	1.0000	1.0000
depressed	0.4542	0.0000	0.0000
dermatology	0.9729	0.9662	0.9671
desharnais	0.4553	0.2381	0.3501
df_final	0.7090	0.5062	0.5385
DIA	0.6918	0.1875	0.3216
diagnosis	1.0000	1.0000	1.0000
diamonds	1.0000	1.0000	1.0000
diamonds_all	0.7830	0.6881	0.6949
dishonest	1.0000	1.0000	1.0000
dlbcl-nih	0.4144	-0.1642	0.0000
dlbcl-stanford	0.8333	0.6154	0.6667
drebin	0.9636	0.9268	0.9273
dropout	0.6751	0.5857	0.5895
ecoli	0.6954	0.7942	0.7982
ecoliCP-IM	0.9141	0.8136	0.8281
ecoliM	0.8012	0.5769	0.6013
ecoliMU	0.6822	0.3529	0.3614
ecoliOM	0.7339	0.4677	0.4677
ecommerce	0.1904	0.0452	0.0566
euthyroid	0.9003	0.8004	0.8005
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Dataset	F1-macro	Kappa	MCC
fakenews	0.5013	0.0002	0.0010
fbis-wc	0.7887	0.8022	0.8030
finance	0.8045	0.6071	0.6090
financial-risk	0.5716	0.7979	0.7990
flags	0.4554	0.6785	0.6926
forest	0.9006	0.8941	0.8950
gas	0.9843	0.9817	0.9817
gastrointestinal	0.4488	0.1450	0.2760
gender	0.4774	0.1828	0.1962
german	0.6276	0.2092	0.2477
gestures	0.9297	0.9052	0.9055
gina	0.9309	0.8616	0.8618
gisette	0.9615	0.9229	0.9230
glass	0.6464	0.5435	0.5610
glass-g2	0.7115	0.3939	0.4229
glassBWFP	0.8990	0.7981	0.7981
glassBWNFP	0.7921	0.5000	0.5774
glassContainers	0.4762	0.0000	0.0000
glassNW	0.9420	0.8772	0.8839
glassTableware	0.4884	0.0000	0.0000
GlaucomaM	0.7978	0.5824	0.5955
gli_85	0.4286	0.0000	0.0000
glioma	0.6061	0.6667	0.7217
glioma-grade	0.8660	0.7317	0.7319
green	0.4553	-0.0870	0.0000
gsalc	0.6667	0.5970	0.6061
haberman	0.4118	-0.0630	0.0000
hapt	0.8443	0.9503	0.9503
har	0.9818	0.9787	0.9787
health-activity	0.2175	0.0000	0.0000
heart	0.7487	0.4850	0.4973
heart-c	0.8228	0.5872	0.6447
heart-failure	0.9723	0.9431	0.9446
heart-quantum	0.8922	0.7619	0.7845
hepatitis	0.4444	0.0000	0.0000
higher	0.0682	0.0552	0.0638
hinselmann	0.4444	0.0000	0.0000
hitters	0.8432	0.6850	0.6864
hiv1-proteasa	0.7981	0.5843	0.5948
hiva	0.4904	-0.0045	0.0000
horse	0.5587	0.1940	0.2404
hotel-reservartions	0.8735	0.7283	0.7261
hr	0.4633	0.0000	0.0000
htru2	0.9354	0.8682	0.8707
hypothyroid	0.7335	0.9688	0.9690
immuno-therapy	0.4375	0.0000	0.0000
ionosphere	0.8767	0.7473	0.7533
iris	1.0000	1.0000	1.0000
irish	0.9802	0.9596	0.9604
isolet	0.9020	0.8972	0.8974
jm1	0.6119	0.1687	0.2065
fvowels	0.9540	0.9511	0.9511
kc1-class-level-numericdefect	0.1646	0.0000	0.0000
kc1-class-level-top5percentDF	0.4828	0.0000	0.0000
kc2	0.6512	0.2956	0.3012
kdc-4007	0.7849	0.7468	0.7470
kidney	0.1778	0.0000	0.0000
kidney-disease	1.0000	1.0000	1.0000
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Dataset	F1-macro	Kappa	MCC
la2s-wc	0.8493	0.8279	0.8290
labor	1.0000	1.0000	1.0000
leaf	0.7450	0.7019	0.6929
led24	0.5213	0.4901	0.5001
lenses	0.1666	0.0000	0.0000
letter	0.9297	0.9266	0.9267
linkage1%	0.8611	0.7128	0.7221
loan	0.9777	0.9547	0.9553
lrs	0.6366	0.7886	0.8005
lung_discrete	1.0000	1.0000	0.9919
lymphography	0.8456	0.6147	0.6205
lymphoma2	0.6203	0.6969	0.7150
machine-failure	0.9272	0.8494	0.8544
magic04	0.8568	0.7086	0.7135
malware	1.0000	1.0000	1.0000
mammography	0.8460	0.6883	0.6921
marketing	0.7078	0.4023	0.4130
mba	0.3837	0.0137	0.0532
mental-disorders	0.8654	0.7778	0.8003
messidor	0.6720	0.3439	0.3439
meter-A	0.8730	0.7143	0.7454
meter-B	0.5943	0.3571	0.3846
meter-C	0.9583	0.9234	0.9274
meter-D	1.0000	1.0000	1.0000
mfeat-fac	0.9560	0.9500	0.9503
mfeat-fou	0.8359	0.8167	0.8178
mfeat-kar	0.9322	0.9222	0.9228
mfeat-mor	0.7255	0.6944	0.6977
mfeat-pix	0.9478	0.9389	0.9395
mfeat-zer	0.8111	0.7778	0.7895
mice-prot	0.9723	0.9682	0.9687
milk	0.9919	0.9855	0.9857
mines	0.4978	0.4106	0.4241
mobile	0.9243	0.9146	0.9149
monks-1	0.9002	0.7809	0.8003
monks-3	0.9642	0.9285	0.9285
mushroom	0.9988	0.9975	0.9975
music	0.5488	0.4239	0.4299
MUT_ci300400a_cdk_ECFP2	0.7474	0.4948	0.4948
MUT_ci300400a_cdk_ECFP4	0.7693	0.5380	0.5386
MUT_ci300400a_cdk_ECFP6	0.7366	0.4726	0.4731
MUT_ci300400a_cdk_ESTATE	0.7391	0.4751	0.4781
MUT_ci300400a_cdk_EXTENDED	0.7855	0.5708	0.5711
MUT_ci300400a_cdk_FCFP2	0.7690	0.5380	0.5381
MUT_ci300400a_cdk_FCFP4	0.7204	0.4385	0.4408
MUT_ci300400a_cdk_FCFP6	0.7438	0.4868	0.4875
MUT_ci300400a_cdk_MACCS	0.7872	0.5719	0.5744
MUT_ci300400a_cdk_PUBCHEM	0.8013	0.6009	0.6026
MUT_ci300400a_cdk_STANDARD	0.7813	0.5626	0.5626
MUT_ci300400a_rdkit_descriptors	0.7857	0.5694	0.5714
myocardial	0.2932	0.3396	0.4530
naticusdroid	0.9643	0.9285	0.9286
nci9	0.5986	0.5981	0.6651
neo	0.6844	0.1877	0.2949
new-thyroid	1.0000	1.0000	1.0000
new-thyroidT	0.8981	0.7742	0.7947
NHANES_age_prediction	1.0000	1.0000	1.0000
nursery	0.9568	0.9661	0.9662

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Dataset	F1-macro	Kappa	MCC
obesity	0.9028	0.8892	0.8898
obs	0.9463	0.9174	0.9189
oh0-wc	0.9259	0.9211	0.9216
oh10-wc	0.7464	0.7509	0.7531
oh15-wc	0.8896	0.8646	0.8657
oh5-wc	0.8209	0.7641	0.7669
olive	0.8217	0.8903	0.8936
optdigits	0.9650	0.9585	0.9586
orlraws10P	0.7546	0.7860	0.7945
ozone1hr	0.4909	0.0000	0.0000
p53-mutants10%	0.4984	-0.0032	0.0000
parkinson	0.9741	0.9481	0.9482
pc1	0.4789	-0.0163	0.0000
pcmac	0.3597	-0.0409	0.0000
pediatric-leukemia	0.7613	0.7487	0.7527
pendigits	0.9918	0.9909	0.9909
period-10f	0.5950	0.1818	0.1890
persistence	0.7643	0.5149	0.5282
pet-adoption	0.9085	0.8133	0.8169
phishing	0.9289	0.8563	0.8578
pima	0.6305	0.2608	0.2609
pirvision	0.9606	0.9547	0.9547
placement	0.7908	0.5785	0.5816
plrx	0.4194	0.0000	0.0000
polya	0.7584	0.5163	0.5169
post-operative	0.4000	0.0000	0.0000
pred-tox_mutagen_ref-desc	0.6954	0.3824	0.3907
prestige	0.7994	0.6538	0.6952
primary-tumor	0.2058	0.2016	0.2150
profb	0.4018	0.0000	0.0000
promoters	0.3750	0.0000	0.0000
pulsar	0.9462	0.8913	0.8924
raisin	0.9001	0.8000	0.8002
rejabatada	1.0000	1.0000	1.0000
relathe	0.9858	0.9716	0.9716
rice	0.9856	0.9711	0.9712
rocket	0.6406	0.2673	0.2804
satimage	0.8822	0.8749	0.8762
scadi	0.6535	0.6284	0.6593
schiller	0.8333	0.6087	0.6614
sclerosis	1.0000	1.0000	1.0000
secom	0.4834	0.0000	0.0000
seeds	1.0000	1.0000	1.0000
segment	0.9479	0.9342	0.9343
segmentation	0.7923	0.5813	0.5846
segmentO	0.9913	0.9825	0.9827
seismic	0.4830	0.0000	0.0000
sens-2-gram	0.4648	0.0000	0.0000
sens-3-gram	0.6601	0.0342	0.1320
sens-4-gram	0.4648	0.0000	0.0000
shoppers	0.7883	0.5656	0.5753
sick	0.8829	0.7484	0.7640
sirtuin6	1.0000	1.0000	1.0000
smarket	1.0000	1.0000	1.0000
smk.can.187	0.5632	0.0856	0.1217
smoking	0.7256	0.4607	0.4607
soil-pollution	0.0968	-0.0462	0.0000
solar-flare	0.6377	0.6746	0.6863
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Dataset	F1-macro	Kappa	MCC
sonar	0.6000	0.2000	0.2000
soybean	0.9781	0.9839	0.9841
spam-detection	0.8433	0.6781	0.6856
spambase	0.9384	0.8764	0.8769
spect	0.4444	0.0000	0.0000
spectf	0.7351	0.4235	0.4648
spectrometer	0.5379	0.5966	0.6069
squash-unstored	0.8333	0.6154	0.6667
startup	0.9883	0.9764	0.9766
steel_industry	0.8715	0.8354	0.8356
stellar	0.9739	0.9470	0.9419
stock	0.8357	0.6714	0.6714
stockb	0.9956	0.9934	0.9934
streaming	0.9879	0.9758	0.9758
stress	1.0000	1.0000	1.0000
student-habits	0.1080	-0.0158	0.0000
student-lifestyle	0.3385	0.3901	0.3942
student-weekend	0.2591	0.1518	0.1873
student-workday	0.1651	0.0000	0.0000
studentap	0.2935	-0.0833	0.0000
swarm_aligned	1.0000	1.0000	1.0000
swarm_flocking	0.9992	0.9983	0.9983
tae	0.6012	0.3000	0.3472
telco-churn	0.8685	0.7333	0.7369
texture	0.9764	0.9719	0.9720
theorem	0.9798	0.9597	0.9597
thoracic	0.4598	0.0000	0.0000
Thyroid_Diff	0.9365	0.8648	0.8728
tis	0.8843	0.7661	0.7686
titanic	0.7934	0.5163	0.5813
tourist	0.5180	0.6302	0.6871
trains	0.3377	0.0000	0.0000
transfusion	0.5980	0.1959	0.1959
tuandromd	0.9694	0.9369	0.9388
turkish	0.8279	0.7667	0.7679
ur3_cobotops_grip	0.6812	0.0776	0.2009
ur3_cobotops_stop	0.4906	0.0000	0.0000
urban	0.7310	0.7889	0.7925
vehicle	0.7470	0.6559	0.6937
vote	0.8950	0.7686	0.7900
vowel	0.6115	0.5111	0.5248
wap-wc	0.6414	0.8212	0.8221
warpar10p	0.4400	0.4834	0.5002
warppie10p	0.9164	0.8939	0.8985
waveform	0.8422	0.7629	0.7634
weather-related	0.9751	0.9695	0.9697
weight-lift	0.9894	0.9874	0.9874
white-clover	0.4000	0.0000	0.0000
wifi-loc	0.9900	0.9867	0.9867
wilt	0.8693	0.7324	0.7379
wine	1.0000	1.0000	1.0000
winequality-red	0.3068	0.3719	0.3815
winequality-white	0.3808	0.3920	0.3983
wisc.bc	0.9817	0.9627	0.9633
yale	0.4291	0.4611	0.4801
yeast	0.2971	0.3850	0.3950
yeastCYT-POX	0.9047	0.7897	0.8078
yeastEXC	0.4932	0.0000	0.0000

Continued on next page

Dataset	F1-macro	Kappa	MCC
yeastME1	0.6755	0.3211	0.3414
yeastME2	0.4879	0.0000	0.0000
zip	0.9290	0.9265	0.9266

Table 9: Detailed results for CIRF

Dataset	F1-macro	Kappa	MCC
abalone	0.1385	0.0755	0.0784
abalone19	0.4982	0.0000	0.0000
accelerometer	0.0175	0.0000	0.0000
ads	0.9070	0.8013	0.8132
adult	0.4328	0.0000	0.0000
advanced-iot	0.0476	0.0000	0.0000
AID_1431	0.4772	0.0000	0.0000
AID_1431_KlekotaRothFingerprinter	0.4772	0.0000	0.0000
AID_1431_MACCSFingerprinter	0.4772	0.0000	0.0000
AID_1878	0.4503	0.0000	0.0000
AID_602330	0.4894	0.0000	0.0000
AID_652128	0.3118	0.0000	0.0000
AID1284red	0.4627	0.0000	0.0000
AID1608Morered	0.4824	0.0000	0.0000
AID1608red	0.4850	0.0000	0.0000
AID362red	0.4965	0.0000	0.0000
AID373AID439red	0.0002	0.0000	0.0000
AID373red	0.0010	0.0000	0.0000
AID456red	0.4992	0.0000	0.0000
AID604	0.0035	0.0000	0.0000
AID604AID644_AllRed	0.4997	0.0000	0.0000
AID687AID721red	0.0006	0.0000	0.0000
AID687red	0.0030	0.0000	0.0000
AID688red	0.4977	0.0000	0.0000
AID721morered	0.4375	0.0000	0.0000
AID721red	0.4375	0.0000	0.0000
AID746AID1284red	0.0010	0.0000	0.0000
AID746red	0.0060	0.0000	0.0000
aids	0.8533	0.6921	0.7058
air_pollution	0.0826	0.0000	0.0000
alcohol	0.4705	0.5786	0.5923
all-aml	1.0000	1.0000	1.0000
anneal	0.7748	0.9296	0.9304
antivirus	1.0000	1.0000	1.0000
anuran-f-b	1.0000	1.0000	1.0000
anxiety	0.0571	-0.0618	0.0000
apple-quality	0.8564	0.7100	0.7129
aps-failure	0.4955	0.0000	0.0000
arabidopsis1%	0.0079	0.0000	0.0000
arcene	0.7041	0.4000	0.4082
arrhythmia	0.2914	0.3807	0.4294
auction	0.9889	0.9776	0.9778
audiology	0.3030	0.3495	0.4195
audit-risk	1.0000	1.0000	1.0000
autism-adolescent	0.2667	0.0000	0.0000
autism-adult	0.4215	0.0000	0.0000
autism-child	1.0000	1.0000	1.0000
autos	0.3773	0.4521	0.5064
avila	0.0485	0.0000	0.0000
balance	0.6345	0.8480	0.8562
bank	0.4702	0.0000	0.0000
bankruptcy	1.0000	1.0000	1.0000
bio	0.4978	0.0000	0.0000
biodeg	0.8470	0.6927	0.6940
biomed	1.0000	1.0000	1.0000
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Dataset	F1-macro	Kappa	MCC
bitcoin10%	0.0006	0.0000	0.0000
body-perf	0.1000	0.0000	0.0000
brain-tumor	0.3340	0.0000	0.0000
breast-cancer	0.6834	0.1695	0.3043
breast-cancer-ma	0.3529	0.0000	0.0000
breast-tissue	0.6620	0.5686	0.5918
bridges	0.4000	0.4828	0.5739
bub12at310k-hg16-17	0.4762	0.0000	0.0000
cad	1.0000	1.0000	1.0000
cancer	1.0000	1.0000	1.0000
cancer-uae	0.2201	0.0000	0.0000
car-insurance	0.8133	0.6266	0.6266
cardiotocography-nsp	0.8682	0.8001	0.8029
cardiovascular	0.3335	0.0000	0.0000
cargo2k	1.0000	1.0000	1.0000
cars	0.7261	0.6759	0.6791
ccds10%	0.0367	0.0000	0.0000
cdc_diabetes	0.3048	0.0000	0.0000
census	0.4844	0.0000	0.0000
cervical-B	0.8563	0.7088	0.7122
cervical-H	0.7807	0.5536	0.5599
cervical-S	0.8046	0.5212	0.5936
children-anemia	0.1075	0.0000	0.0000
chrom19	0.4998	0.0000	0.0000
chrom211%	0.4998	0.0000	0.0000
churn	0.7194	0.3973	0.4315
cjs	0.0426	0.0000	0.0000
ckd	0.3939	0.0000	0.0000
clave	0.6755	0.6764	0.6845
cll_sub_111	0.0952	0.0000	0.0000
cmc	0.5819	0.3740	0.3752
cnae-9	0.9208	0.8958	0.8987
codon_usage	0.0325	0.0000	0.0000
coil20	0.9866	0.9854	0.9855
college	0.8736	0.7457	0.7472
collins	0.9221	0.9780	0.9784
colon-tumor	0.7500	0.4000	0.5000
colposcopies-1	0.7208	0.3940	0.4371
colposcopies-2	0.7005	0.3446	0.3957
colposcopies-4	0.7810	0.4649	0.5504
colposcopies-5	0.4528	0.0000	0.0000
colposcopies-c	0.7539	0.5051	0.5076
column-2c	0.8524	0.7048	0.7048
column-3c	0.6451	0.5804	0.5814
connect-4	0.0068	0.0000	0.0000
coupon	0.3625	0.0000	0.0000
covtype	0.0763	0.0000	0.0000
covtypeCD	0.1202	0.0000	0.0000
covtypeT	0.4819	0.0000	0.0000
crabs	0.8521	0.8000	0.8027
creditcard_trans	0.4996	0.0000	0.0000
crowdsourced	0.0075	0.0000	0.0000
cryotherapy	0.7404	0.3721	0.4781
cultivars	0.1915	0.2625	0.2671
cybersecurity	0.1759	0.0020	0.0021
cyclopentane	0.8500	0.7000	0.7000
cylinder-bands	0.7901	0.5763	0.5802
datatrieve	0.4800	0.0000	0.0000

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Dataset	F1-macro	Kappa	MCC
dating	0.0181	0.0000	0.0000
dbworld	0.3636	0.0000	0.0000
default	0.7219	0.4138	0.4393
dementia	1.0000	1.0000	1.0000
deposit	0.4689	0.0000	0.0000
depressed	0.6649	0.0675	0.1869
dermatology	0.9729	0.9662	0.9671
desharnais	0.6377	0.7333	0.7702
df_final	0.7289	0.5062	0.5824
DIA	0.7938	0.5000	0.5774
diabetes-100k	0.4778	0.0000	0.0000
diagnosis	1.0000	1.0000	1.0000
diamonds	1.0000	1.0000	1.0000
diamonds_all	0.1142	0.0000	0.0000
dishonest	1.0000	1.0000	1.0000
dlbcl-nih	0.3684	0.0000	0.0000
dlbcl-stanford	1.0000	1.0000	1.0000
dna0.1%	0.0028	0.0000	0.0000
dota2	0.3210	0.0000	0.0000
drebin	0.2747	0.0000	0.0000
dropout	0.6825	0.6081	0.6150
ecoli	0.5623	0.8343	0.8408
ecoliCP-IM	1.0000	1.0000	1.0000
ecoliM	0.9175	0.8350	0.8350
ecoliMU	0.8167	0.6333	0.6333
ecoliOM	0.8514	0.6526	0.6960
ecommerce	0.2709	0.0259	0.0259
euthyroid	0.9166	0.8318	0.8331
fakenews	0.5415	0.0209	0.0563
fbis-wc	0.1099	0.0753	0.0800
finance	0.6835	0.3462	0.3663
financial-risk	0.0692	0.0000	0.0000
flags	0.0476	0.0000	0.0000
forest	0.9069	0.8937	0.8983
gas	0.0388	0.0000	0.0000
gastrointestinal	0.5146	0.4631	0.4890
gender	0.4908	0.1577	0.1755
german	0.6572	0.2714	0.3088
gestures	0.0997	0.0000	0.0000
gina	0.9424	0.8847	0.8848
gisette	0.3333	0.0000	0.0000
glass	0.7643	0.7342	0.7437
glass-g2	0.9352	0.8621	0.8704
glassBWFP	0.7948	0.5758	0.5892
glassBWNFP	0.7771	0.5385	0.5534
glassContainers	0.4762	0.0000	0.0000
glassNW	0.8662	0.6957	0.7303
glassTableware	0.4884	0.0000	0.0000
GlaucomaM	0.7978	0.5824	0.5955
gli_85	0.2000	0.0000	0.0000
glioma	0.6250	0.7059	0.7500
glioma-grade	0.8790	0.7571	0.7580
green	0.7619	0.4118	0.5092
gsalc	0.8602	0.7353	0.7693
haberman	0.6323	0.2593	0.2638
hapt	0.0012	0.0000	0.0000
har	0.0886	0.0000	0.0000
harth10%	0.0096	0.0000	0.0000
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Dataset	F1-macro	Kappa	MCC
health-activity	0.2175	0.0000	0.0000
heart	0.7666	0.5263	0.5330
heart-c	0.9067	0.7964	0.8134
heart-failure	0.9767	0.9531	0.9535
heart-quantum	0.9423	0.8780	0.8847
hepatitis	0.8929	0.7619	0.7845
higher	0.1721	0.1083	0.1577
hinselmann	0.4444	0.0000	0.0000
hitters	0.9373	0.8745	0.8745
hiv1-proteasa	0.7440	0.4562	0.4826
hiva	0.4910	0.0000	0.0000
horse	0.7157	0.5500	0.5767
hotel-reservartions	0.4020	0.0000	0.0000
hr	0.4633	0.0000	0.0000
ht-sensor	0.1650	0.0000	0.0000
htru2	0.9398	0.8789	0.8795
hypothyroid	0.7384	0.9532	0.9534
immuno-therapy	0.6786	0.3571	0.3571
ionosphere	0.9671	0.9320	0.9342
iris	1.0000	1.0000	1.0000
irish	0.9800	0.9592	0.9600
isolet	0.0029	0.0000	0.0000
jm1	0.6562	0.2252	0.2872
jvowels	0.9583	0.9556	0.9557
kc1-class-level-numericdefect	0.1636	0.0000	0.0000
kc1-class-level-top5percentDF	0.4643	-0.0714	0.0000
kc2	0.6929	0.3824	0.3854
kdc-4007	0.0345	0.0000	0.0000
kddcup991%	0.0253	0.0000	0.0000
kidney	0.1778	0.0000	0.0000
kidney-disease	0.3846	0.0000	0.0000
la2s-wc	0.0319	0.0000	0.0000
labor	0.8537	0.6667	0.7071
leaf	0.6284	0.6591	0.6652
led24	0.6390	0.6056	0.6108
lenses	0.1667	0.0000	0.0000
letter	0.9226	0.9178	0.9179
linkage1%	0.0036	0.0000	0.0000
loan	0.9875	0.9750	0.9751
lrs	0.4329	0.7363	0.7485
lung_discrete	0.5466	0.8367	0.8549
lymphography	0.4062	0.5758	0.5836
lymphoma2	0.5263	0.8500	0.8645
machine-failure	0.9251	0.8483	0.8501
magic04	0.8533	0.7029	0.7065
malware	1.0000	1.0000	1.0000
mammography	0.8434	0.6867	0.6868
marketing	0.7110	0.3488	0.4046
mba	0.4037	0.1780	0.2012
mental-disorders	0.7603	0.6667	0.6729
messidor	0.6897	0.3793	0.3794
meter-A	0.7241	0.3333	0.4472
meter-B	1.0000	1.0000	1.0000
meter-C	1.0000	1.0000	1.0000
meter-D	0.9148	0.9221	0.9262
mfeat-fac	0.9656	0.9611	0.9613
mfeat-fou	0.7913	0.7667	0.7672
mfeat-kar	0.9612	0.9556	0.9557
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Dataset	F1-macro	Kappa	MCC
mfeat-mor	0.7073	0.6722	0.6726
mfeat-pix	0.9756	0.9722	0.9724
mfeat-zer	0.7672	0.7444	0.7446
mice-prot	1.0000	1.0000	1.0000
milk	1.0000	1.0000	1.0000
mines	0.4906	0.4093	0.4111
mobile	0.9086	0.8968	0.8972
monks-1	1.0000	1.0000	1.0000
monks-3	0.9824	0.9642	0.9648
mushroom	0.9988	0.9975	0.9975
music	0.0136	0.0000	0.0000
MUT_ci300400a_cdk_ECFP2	0.2944	0.0000	0.0000
MUT_ci300400a_cdk_ECFP4	0.2942	0.0000	0.0000
MUT_ci300400a_cdk_ECFP6	0.2948	0.0000	0.0000
MUT_ci300400a_cdk_ESTATE	0.7674	0.5334	0.5348
MUT_ci300400a_cdk_EXTENDED	0.2944	0.0000	0.0000
MUT_ci300400a_cdk_FCFP2	0.2942	0.0000	0.0000
MUT_ci300400a_cdk_FCFP4	0.2944	0.0000	0.0000
MUT_ci300400a_cdk_FCFP6	0.2944	0.0000	0.0000
MUT_ci300400a_cdk_MACCS	0.2944	0.0000	0.0000
MUT_ci300400a_cdk_PUBCHEM	0.2942	0.0000	0.0000
MUT_ci300400a_cdk_STANDARD	0.2942	0.0000	0.0000
MUT_ci300400a_rdkit_descriptors	0.2988	0.0000	0.0000
myocardial	0.3102	0.3867	0.4911
naticusdroid	0.3328	0.0000	0.0000
nci9	0.7895	0.8000	0.8281
ncRNA10%	0.0461	0.0000	0.0000
neo	0.4744	0.0000	0.0000
new-thyroid	1.0000	1.0000	1.0000
new-thyroidT	1.0000	1.0000	1.0000
newspop	0.3187	0.0000	0.0000
NHANES_age_prediction	1.0000	1.0000	1.0000
nomao	0.4167	0.0000	0.0000
nursery	0.1000	0.0000	0.0000
obesity	0.9470	0.9391	0.9393
obs	0.9934	0.9862	0.9864
oh0-wc	0.9113	0.8860	0.8902
oh10-wc	0.0205	0.0000	0.0000
oh15-wc	0.0122	0.0000	0.0000
oh5-wc	0.8748	0.8376	0.8408
olive	0.9007	0.8904	0.8947
optdigits	0.9541	0.9466	0.9468
orlraws10P	0.0182	0.0000	0.0000
ozone1hr	0.4909	0.0000	0.0000
p53-mutants10%	0.4992	0.0000	0.0000
parkinson	0.9915	0.9828	0.9830
particle	0.2191	0.0000	0.0000
pc1	0.6277	0.1763	0.2241
pcmac	0.3681	0.0000	0.0000
pediatric-leukemia	0.0159	0.0000	0.0000
pendigits	0.9872	0.9858	0.9859
period-10f	0.5950	0.1818	0.1890
persistence	0.7978	0.5924	0.5955
personalities	0.0074	0.0000	0.0000
pet-adoption	0.9376	0.8722	0.8751
phishing	0.9572	0.9144	0.9144
PhiUSIL10%	0.3637	0.0000	0.0000
phy	0.3346	0.0000	0.0000
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Dataset	F1-macro	Kappa	MCC
pima	0.6716	0.3235	0.3419
pirvision	0.2997	0.0000	0.0000
placement	0.7852	0.5697	0.5704
plrx	0.4194	0.0000	0.0000
polya	0.2635	0.0000	0.0000
popularity	0.1591	0.0000	0.0000
post-operative	0.2667	0.0000	0.0000
postures	0.0690	0.0000	0.0000
pred-tox_mutagen_ref-desc	0.7501	0.5000	0.5002
prestige	0.7438	0.6471	0.6605
primary-tumor	0.3653	0.4138	0.4331
processed	0.4040	0.0000	0.0000
profb	0.6710	0.2726	0.3306
promoters	0.9083	0.8000	0.8165
puc-rio	0.0830	0.0000	0.0000
pufs-1281%	0.3333	0.0000	0.0000
pufs-6410%	0.3334	0.0000	0.0000
pulsar	0.4757	0.0000	0.0000
raisin	0.9338	0.8667	0.8675
rejabatada	0.0340	0.0000	0.0000
relathe	1.0000	1.0000	1.0000
rice	0.3545	0.0000	0.0000
rocket	0.6546	0.3092	0.3093
RT_IOT2022	0.0054	0.0000	0.0000
satimage	0.8771	0.8690	0.8703
scadi	0.6984	0.6316	0.6860
schiller	0.8333	0.6087	0.6614
sclerosis	1.0000	1.0000	1.0000
secom	0.4834	0.0000	0.0000
secondary_mushroom	0.3568	0.0000	0.0000
seeds	0.9077	0.8571	0.8601
segment	0.9737	0.9646	0.9650
segmentation	0.8440	0.6880	0.6881
segmentO	1.0000	1.0000	1.0000
seismic	0.4830	0.0000	0.0000
sens-2-gram	0.6687	0.0675	0.1869
sens-3-gram	0.6772	0.0998	0.2292
sens-4-gram	0.4648	0.0000	0.0000
sensorless	0.0151	0.0000	0.0000
shoppers	0.7908	0.5739	0.5806
sick	0.8834	0.7369	0.7638
sirtuin6	1.0000	1.0000	1.0000
smarket	0.9921	0.9840	0.9841
smk_can_187	0.3214	0.0000	0.0000
smoking	0.3876	0.0000	0.0000
soil_pollution	0.2082	0.0144	0.0146
solar-flare	0.5943	0.6835	0.6893
sonar	0.6269	0.2000	0.2500
soybean	0.8722	0.9187	0.9225
spam-detection	0.4759	0.0000	0.0000
spambase	0.9340	0.8665	0.8681
spect	0.6403	0.2703	0.2786
spectf	0.8606	0.6818	0.7192
spectrometer	0.4533	0.5716	0.5764
squash-unstored	0.6667	1.0000	1.0000
startup	1.0000	1.0000	1.0000
steel_industry	0.2269	0.0000	0.0000
stellar	0.2486	0.0000	0.0000
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Dataset	F1-macro	Kappa	MCC
stock	0.7976	0.5950	0.5951
stockb	0.9956	0.9934	0.9934
streaming	0.9960	0.9919	0.9919
stress	0.9845	0.9801	0.9805
student-depression	0.3693	0.0000	0.0000
student-habits	0.1827	0.0443	0.0482
student-lifestyle	0.3490	0.4006	0.4112
student-weekend	0.3288	0.1797	0.2039
student-workday	0.1630	-0.0191	0.0000
studentap	0.3636	0.1415	0.1460
swarm_aligned	0.4075	0.0000	0.0000
swarm_flocking	0.3333	0.0000	0.0000
swarm_grouped	0.3846	0.0000	0.0000
tae	0.6082	0.4000	0.4027
telco-churn	0.8593	0.7158	0.7185
texture	0.9761	0.9719	0.9720
theorem	1.0000	1.0000	1.0000
thoracic	0.4598	0.0000	0.0000
Thyroid_Diff	0.9365	0.8648	0.8728
tis	0.1984	0.0000	0.0000
titanic	0.7714	0.5247	0.5418
tourist	0.0444	0.0000	0.0000
trains	0.3333	0.0000	0.0000
transfusion	0.5547	0.1085	0.1093
tuandromd	0.9650	0.9298	0.9299
turkish	0.7444	0.6667	0.6683
tvnews	0.2679	0.0000	0.0000
ur3_cobotops_grip	0.7655	0.3921	0.4938
ur3_cobotops_stop	0.7320	0.3430	0.4277
urban	0.7991	0.8070	0.8096
ustilago10%	0.0105	0.0000	0.0000
vehicle	0.6983	0.6303	0.6346
vote	0.9307	0.8605	0.8615
vowel	0.6832	0.6222	0.6315
wap-wc	0.0019	0.0000	0.0000
warpar10p	0.6829	0.6533	0.6622
warppie10p	1.0000	1.0000	1.0000
waveform	0.8466	0.7661	0.7696
weather-related	0.9527	0.9476	0.9480
weight-lift	0.0621	0.0000	0.0000
white-clover	0.1667	-0.2857	0.0000
wifi-loc	0.9950	0.9933	0.9934
wilt	0.9195	0.8369	0.8389
wine	1.0000	1.0000	1.0000
winequality-red	0.2960	0.3687	0.3764
winequality-white	0.3069	0.3960	0.4025
winnipeg10%	0.0307	0.0000	0.0000
wisc.bc	1.0000	1.0000	1.0000
yale	0.6588	0.6653	0.6796
yeast	0.4033	0.4578	0.4651
yeastCYT-POX	0.9047	0.7897	0.8078
yeastEXC	0.4897	-0.0183	0.0000
yeastME1	0.8546	0.6605	0.7022
yeastME2	0.7218	0.2410	0.3702
zip	0.0162	0.0000	0.0000

Table 10: Detailed results for Crazier (ova)

Dataset	F1-macro	Kappa	MCC
abalone	0.1247	0.0733	0.0750
abalone19	0.4982	0.0000	0.0000
accelerometer	0.7308	0.3839	0.4390
ads	0.9548	0.9055	0.9096
adult	0.7891	0.5534	0.5771
advanced-iot	1.0000	1.0000	1.0000
AID_1431	0.4772	0.0000	0.0000
AID_1431_KlekotaRothFingerprinter	0.4772	0.0000	0.0000
AID_1431_MACCSFingerprinter	0.4772	0.0000	0.0000
AID_1878	0.4503	0.0000	0.0000
AID_602330	0.4880	-0.0093	0.0000
AID_652128	0.3118	0.0000	0.0000
AID1284red	0.4627	0.0000	0.0000
AID1608Moredred	0.4824	0.0000	0.0000
AID1608red	0.4824	-0.0169	0.0000
AID362red	0.4965	0.0000	0.0000
AID373AID439red	0.5000	0.0000	0.0000
AID373red	0.7367	0.2855	0.4081
AID456red	0.4992	0.0000	0.0000
AID604	0.9850	0.9696	0.9700
AID604AID644_AllRed	0.4997	0.0000	0.0000
AID687AID721red	0.4998	0.0000	0.0000
AID687red	0.4992	0.0000	0.0000
AID688red	0.4977	0.0000	0.0000
AID721moredred	0.4375	0.0000	0.0000
AID721red	0.4375	0.0000	0.0000
AID746AID1284red	0.4997	0.0000	0.0000
AID746red	0.6833	0.2311	0.3134
aids	0.8494	0.6986	0.6988
air_pollution	0.0826	0.0000	0.0000
alcohol	0.7071	0.7043	0.7232
all-aml	1.0000	1.0000	1.0000
anneal	0.9872	0.9766	0.9769
antivirus	1.0000	1.0000	1.0000
anuran-f-b	1.0000	1.0000	1.0000
anxiety	0.0921	-0.0141	0.0000
apple-quality	0.8263	0.6500	0.6526
aps-failure	0.8678	0.7316	0.7351
arabidopsis1%	0.4980	0.0000	0.0000
arcene	0.7292	0.4231	0.4583
arrhythmia	0.4195	0.4633	0.5226
auction	0.9889	0.9776	0.9778
audiology	0.7646	0.8374	0.8440
audit-risk	1.0000	1.0000	1.0000
autism-adolescent	1.0000	1.0000	1.0000
autism-adult	1.0000	1.0000	1.0000
autism-child	1.0000	1.0000	1.0000
autos	0.9064	0.8667	0.8758
avila	0.9977	0.9994	0.9994
balance	0.8008	0.7895	0.7978
bank	0.7755	0.5509	0.5510
bankruptcy	1.0000	1.0000	1.0000
bio	0.8709	0.7103	0.7377
biodeg	0.8780	0.7553	0.7560
biomed	1.0000	1.0000	1.0000

Continued on next page

Dataset	F1-macro	Kappa	MCC
bitcoin10%	0.3160	0.2862	0.2954
body-perf	0.7232	0.6259	0.6311
brain-tumor	0.5223	0.0443	0.0446
breast-cancer	0.7126	0.3824	0.4196
breast-cancer-ma	0.6309	0.2414	0.2609
breast-tissue	0.8470	0.7800	0.7879
bridges	0.7895	0.8571	0.8697
bub12at310k-hg16-17	0.6959	0.3718	0.3868
cad	1.0000	1.0000	1.0000
cancer	1.0000	1.0000	1.0000
cancer-uae	0.3086	-0.0195	0.0000
car-insurance	0.8161	0.6295	0.6322
cardiotocography-nsp	0.8413	0.7632	0.7642
cardiovascular	0.7307	0.4574	0.4613
cargo2k	1.0000	1.0000	1.0000
cars	0.8096	0.7324	0.7354
ccds10%	0.6780	0.0665	0.1854
cdc_diabetes	0.4508	0.3092	0.3223
census	0.7568	0.4907	0.4967
cervical-B	0.8563	0.7088	0.7122
cervical-H	0.8481	0.6446	0.6896
cervical-S	0.8481	0.6446	0.6896
children-anemia	0.8573	0.8974	0.8990
chrom19	0.9477	0.8911	0.8951
chrom211%	0.4998	0.0000	0.0000
churn	0.7723	0.5380	0.5440
cjs	1.0000	1.0000	1.0000
ckd	1.0000	1.0000	1.0000
clave	0.6740	0.6445	0.6458
cll_sub_111	0.8028	0.6000	0.6068
cmc	0.5524	0.3345	0.3361
cnae-9	0.9729	0.9688	0.9688
codon_usage	0.6899	0.8317	0.8354
coil20	1.0000	1.0000	1.0000
college	0.9172	0.8338	0.8343
collins	1.0000	1.0000	1.0000
colon-tumor	0.8537	0.6667	0.7071
colposcopies-1	0.7635	0.4942	0.5249
colposcopies-2	0.7264	0.3176	0.4345
colposcopies-4	0.7810	0.4649	0.5504
colposcopies-5	0.4528	0.0000	0.0000
colposcopies-c	0.8054	0.5323	0.6022
column-2c	0.9342	0.8597	0.8683
column-3c	0.7543	0.6895	0.6930
connect-4	0.7623	0.7053	0.7172
coupon	0.7408	0.4811	0.4815
covtype	0.9254	0.9202	0.9281
covtypeCD	0.9809	0.9619	0.9619
covtypeT	0.9421	0.8839	0.8841
crabs	0.8681	0.8000	0.8137
creditcard_trans	0.9230	0.8331	0.8449
crowdsourced	0.8069	0.8639	0.8653
cryotherapy	0.8163	0.5714	0.6325
cultivars	0.6461	0.6774	0.6816
cybersecurity	0.1764	0.0140	0.0140
cyclopentane	0.6181	0.2241	0.2358
cylinder-bands	0.7908	0.5811	0.5815
datatrieve	0.4800	0.0000	0.0000
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Dataset	F1-macro	Kappa	MCC
dating	0.1023	0.0028	0.0028
dbworld	1.0000	1.0000	1.0000
default	0.7197	0.4338	0.4387
dementia	1.0000	1.0000	1.0000
deposit	0.7616	0.5232	0.5232
depressed	0.6649	0.0675	0.1869
dermatology	0.9429	0.9325	0.9325
desharnais	1.0000	1.0000	1.0000
df_final	0.8272	0.7108	0.7243
DIA	0.7692	0.4286	0.5222
diabetes-100k	0.8926	0.7606	0.7831
diagnosis	1.0000	1.0000	1.0000
diamonds	1.0000	1.0000	1.0000
diamonds_all	0.7364	0.6436	0.6510
dishonest	1.0000	1.0000	1.0000
dlbcl-nih	0.3333	-0.1613	0.0000
dlbcl-stanford	1.0000	1.0000	1.0000
dna0.1%	0.4993	0.0000	0.0000
dota2	0.5733	0.1426	0.1466
drebin	0.9906	0.9810	0.9812
dropout	0.6697	0.5892	0.5990
ecoli	0.7174	0.7942	0.7992
ecoliCP-IM	1.0000	1.0000	1.0000
ecoliM	0.9175	0.8350	0.8350
ecoliMU	0.7024	0.3678	0.3975
ecoliOM	0.8514	0.6526	0.6960
ecommerce	0.2509	0.0017	0.0017
euthyroid	0.9267	0.8527	0.8533
fakenews	0.4804	-0.0391	0.0000
fbis-wc	0.7220	0.7527	0.7585
finance	0.8014	0.6009	0.6029
financial-risk	0.4753	0.5683	0.6056
flags	0.6212	0.7452	0.7552
forest	0.9069	0.8937	0.8983
gas	0.9961	0.9956	0.9956
gastrointestinal	0.8485	0.7838	0.8094
gender	0.4822	0.1727	0.1792
german	0.6992	0.3516	0.3935
gestures	0.8811	0.8413	0.8420
gina	0.9077	0.8155	0.8155
gisette	0.9344	0.8686	0.8687
glass	0.7572	0.7981	0.8008
glass-g2	1.0000	1.0000	1.0000
glassBWFP	0.9507	0.8966	0.9014
glassBWNFP	0.9472	0.8889	0.8944
glassContainers	1.0000	1.0000	1.0000
glassNW	0.9340	0.8591	0.8677
glassTableware	1.0000	1.0000	1.0000
GlaucomaM	0.7978	0.5824	0.5955
gli_85	1.0000	1.0000	1.0000
glioma	0.8333	0.7059	0.7500
glioma-grade	0.8845	0.7610	0.7689
green	0.6098	0.2105	0.2182
gsalc	1.0000	1.0000	1.0000
haberman	0.6698	0.3226	0.3371
hapt	0.8417	0.9123	0.9130
har	0.9938	0.9929	0.9929
harth10%	0.5578	0.7940	0.8042
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Dataset	F1-macro	Kappa	MCC
health-activity	0.2175	0.0000	0.0000
heart	0.8064	0.6110	0.6128
heart-c	0.9330	0.8661	0.8661
heart-failure	0.9861	0.9719	0.9722
heart-quantum	0.9423	0.8780	0.8847
hepatitis	0.7266	0.4444	0.4523
higher	0.2447	0.1304	0.1419
hinselmann	0.4444	0.0000	0.0000
hitters	0.9373	0.8745	0.8745
hiv1-proteasa	0.7596	0.4368	0.5042
hiva	0.5844	0.1005	0.1361
horse	0.4559	0.2994	0.3559
hotel-reservartions	0.8956	0.7907	0.7911
hr	0.4633	0.0000	0.0000
ht-sensor	1.0000	1.0000	1.0000
htru2	0.9337	0.8651	0.8673
hypothyroid	0.7320	0.9368	0.9368
immuno-therapy	0.8333	0.6087	0.6614
ionosphere	0.9337	0.8674	0.8674
iris	1.0000	1.0000	1.0000
irish	1.0000	1.0000	1.0000
isolet	0.8915	0.8852	0.8854
jm1	0.6683	0.3254	0.3345
jvowels	0.9692	0.9681	0.9682
kc1-class-level-numericdefect	0.1636	0.0000	0.0000
kc1-class-level-top5percentDF	0.4643	-0.0714	0.0000
kc2	0.7312	0.4595	0.4622
kdc-4007	0.8658	0.8399	0.8411
kddcup991%	0.9696	0.9986	0.9986
kidney	0.1778	0.0000	0.0000
kidney-disease	1.0000	1.0000	1.0000
la2s-wc	0.8205	0.8000	0.8053
labor	1.0000	1.0000	1.0000
leaf	0.6534	0.6906	0.6996
led24	0.6782	0.6011	0.6064
lenses	1.0000	1.0000	1.0000
letter	0.9577	0.9563	0.9563
linkage1%	1.0000	1.0000	1.0000
loan	0.9641	0.9264	0.9283
lrs	0.6405	0.8169	0.8256
lung_discrete	0.9164	0.8400	0.8573
lymphography	0.5520	0.6000	0.6181
lymphoma2	0.6027	0.6842	0.7120
machine-failure	0.9251	0.8483	0.8501
magic04	0.8490	0.6919	0.6979
malware	1.0000	1.0000	1.0000
mammography	0.8745	0.7490	0.7490
marketing	0.7519	0.4309	0.4894
mba	0.4590	0.3596	0.3641
mental-disorders	0.9270	0.8889	0.8972
messidor	0.6640	0.3240	0.3281
meter-A	0.8000	0.5294	0.6000
meter-B	1.0000	1.0000	1.0000
meter-C	1.0000	1.0000	1.0000
meter-D	0.8784	0.8448	0.8561
mfeat-fac	0.9656	0.9611	0.9613
mfeat-fou	0.7740	0.7444	0.7454
mfeat-kar	0.9555	0.9500	0.9502
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Dataset	F1-macro	Kappa	MCC
mfeat-mor	0.7018	0.6667	0.6676
mfeat-pix	0.9804	0.9778	0.9779
mfeat-zer	0.7765	0.7500	0.7504
mice-prot	1.0000	1.0000	1.0000
milk	1.0000	1.0000	1.0000
mines	0.6227	0.5216	0.5280
mobile	0.9671	0.9644	0.9645
monks-1	1.0000	1.0000	1.0000
monks-3	0.9824	0.9642	0.9648
mushroom	1.0000	1.0000	1.0000
music	0.5223	0.3745	0.3777
MUT_ci300400a_cdk_ECFP2	0.8268	0.6527	0.6535
MUT_ci300400a_cdk_ECFP4	0.8301	0.6564	0.6601
MUT_ci300400a_cdk_ECFP6	0.8063	0.6125	0.6125
MUT_ci300400a_cdk_ESTATE	0.7838	0.5669	0.5676
MUT_ci300400a_cdk_EXTENDED	0.8532	0.7065	0.7065
MUT_ci300400a_cdk_FCFP2	0.8452	0.6896	0.6903
MUT_ci300400a_cdk_FCFP4	0.8011	0.6005	0.6021
MUT_ci300400a_cdk_FCFP6	0.8034	0.6031	0.6069
MUT_ci300400a_cdk_MACCS	0.8423	0.6847	0.6847
MUT_ci300400a_cdk_PUBCHEM	0.8740	0.7479	0.7480
MUT_ci300400a_cdk_STANDARD	0.8368	0.6735	0.6737
MUT_ci300400a_rdkit_descriptors	0.8538	0.7070	0.7075
myocardial	0.3102	0.3867	0.4911
naticusdroid	0.9684	0.9368	0.9368
nci9	0.7895	0.8000	0.8281
ncRNA10%	0.7184	0.8380	0.8407
neo	0.7573	0.4147	0.5008
new-thyroid	1.0000	1.0000	1.0000
new-thyroidT	1.0000	1.0000	1.0000
newspop	0.6709	0.3414	0.3417
NHANES_age_prediction	1.0000	1.0000	1.0000
nomao	0.9579	0.9158	0.9158
nursery	0.9621	0.9548	0.9553
obesity	0.9474	0.9391	0.9396
obs	1.0000	1.0000	1.0000
oh0-wc	0.9362	0.9205	0.9216
oh10-wc	0.8047	0.7716	0.7759
oh15-wc	0.9001	0.8757	0.8783
oh5-wc	0.8533	0.8126	0.8166
olive	0.9174	0.9123	0.9157
optdigits	0.9669	0.9604	0.9605
orlraws10P	1.0000	1.0000	1.0000
ozone1hr	0.4909	0.0000	0.0000
p53-mutants10%	0.4992	0.0000	0.0000
parkinson	0.9915	0.9828	0.9830
particle	0.9048	0.8094	0.8096
pc1	0.6986	0.3909	0.3956
pcmac	0.3660	-0.0103	0.0000
pediatric-leukemia	0.5607	0.6280	0.6472
pendigits	0.9846	0.9828	0.9828
period-10f	0.5000	0.0000	0.0000
persistence	0.7907	0.5743	0.5813
personalities	0.9750	0.9733	0.9733
pet-adoption	0.8937	0.7701	0.7870
phishing	0.9657	0.9312	0.9314
PhiUSIL10%	0.9996	0.9991	0.9991
phy	0.7100	0.4194	0.4200
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Dataset	F1-macro	Kappa	MCC
pima	0.7027	0.3824	0.4041
pirvision	1.0000	1.0000	1.0000
placement	0.7847	0.5690	0.5693
plrx	0.4194	0.0000	0.0000
polya	0.7332	0.4416	0.4649
popularity	0.4313	0.2476	0.2801
post-operative	0.4000	0.0000	0.0000
postures	0.9867	0.9837	0.9837
pred-tox_mutagen_ref-desc	0.6768	0.3529	0.3536
prestige	0.8889	0.8302	0.8462
primary-tumor	0.4144	0.4270	0.4396
processed	1.0000	1.0000	1.0000
profb	0.6043	0.1853	0.2049
promoters	0.9083	0.8000	0.8165
puc-rio	0.9890	0.9916	0.9916
pufs-1281%	0.4907	-0.0187	0.0000
pufs-6410%	0.5021	0.0041	0.0042
pulsar	0.9485	0.8950	0.8969
raisin	0.8904	0.7778	0.7809
rejabatada	1.0000	1.0000	1.0000
relathe	1.0000	1.0000	1.0000
rice	0.9861	0.9722	0.9723
rocket	0.7158	0.4299	0.4317
RT_IOT2022	0.9812	0.9969	0.9969
satimage	0.8811	0.8708	0.8721
scadi	0.6984	0.6316	0.6860
schiller	0.8333	0.6087	0.6614
sclerosis	1.0000	1.0000	1.0000
secom	0.4834	0.0000	0.0000
secondary_mushroom	1.0000	1.0000	1.0000
seeds	0.9553	0.9286	0.9317
segment	0.9698	0.9595	0.9598
segmentation	0.8511	0.7016	0.7022
segmentO	1.0000	1.0000	1.0000
seismic	0.4819	-0.0074	0.0000
sens-2-gram	0.6772	0.0998	0.2292
sens-3-gram	0.6687	0.0675	0.1869
sens-4-gram	0.5838	0.0286	0.0793
sensorless	0.9985	0.9983	0.9983
shoppers	0.8117	0.6220	0.6232
sick	0.8708	0.7291	0.7402
sirtuin6	1.0000	1.0000	1.0000
smarket	0.9921	0.9840	0.9841
smk_can_187	0.6841	0.3596	0.3680
smoking	0.8342	0.6545	0.6683
soil_pollution	0.1987	0.0060	0.0061
solar-flare	0.7220	0.7134	0.7160
sonar	0.6741	0.3000	0.3464
soybean	1.0000	1.0000	1.0000
spam-detection	0.8671	0.7340	0.7341
spambase	0.9544	0.9087	0.9089
spect	0.6250	0.2500	0.2500
spectf	0.8956	0.7692	0.7906
spectrometer	0.4822	0.5289	0.5382
squash-unstored	1.0000	1.0000	1.0000
startup	1.0000	1.0000	1.0000
steel_industry	0.8669	0.8289	0.8290
stellar	0.9676	0.9496	0.9497
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Dataset	F1-macro	Kappa	MCC
stock	0.7804	0.5607	0.5608
stockb	1.0000	1.0000	1.0000
streaming	0.9333	0.8660	0.8666
stress	1.0000	1.0000	1.0000
student-depression	0.8246	0.6482	0.6491
student-habits	0.1742	0.0137	0.0147
student-lifestyle	0.3625	0.4129	0.4157
student-weekend	0.2564	0.0892	0.0979
student-workday	0.2655	0.0777	0.1982
studentap	0.4301	0.1727	0.1743
swarm_aligned	1.0000	1.0000	1.0000
swarm_flocking	1.0000	1.0000	1.0000
swarm_grouped	1.0000	1.0000	1.0000
tae	0.4828	0.2000	0.2041
telco-churn	0.8654	0.7286	0.7307
texture	0.9811	0.9779	0.9780
theorem	0.9597	0.9188	0.9193
thoracic	0.4598	0.0000	0.0000
Thyroid_Diff	0.9365	0.8648	0.8728
tis	0.8334	0.6372	0.6647
titanic	0.7934	0.5163	0.5813
tourist	0.5250	0.6364	0.6848
trains	0.3333	0.0000	0.0000
transfusion	0.5682	0.1355	0.1363
tuandromd	0.9853	0.9706	0.9707
turkish	0.8510	0.8000	0.8027
tvnews	0.9435	0.8862	0.8870
ur3_cobotops_grip	0.7655	0.3921	0.4938
ur3_cobotops_stop	0.7360	0.4501	0.4665
urban	0.8590	0.8251	0.8277
ustilago10%	0.4973	0.0000	0.0000
vehicle	0.7031	0.6623	0.6654
vote	0.9307	0.8605	0.8615
vowel	0.7464	0.6778	0.6911
wap-wc	0.5000	0.6539	0.6660
warpar10p	0.7330	0.7400	0.7501
warppie10p	1.0000	1.0000	1.0000
waveform	0.8467	0.7661	0.7697
weather-related	0.9750	0.9695	0.9698
weight-lift	0.9975	0.9968	0.9968
white-clover	0.6604	0.1818	0.3162
wifi-loc	0.9902	0.9867	0.9868
wilt	0.9249	0.8495	0.8497
wine	1.0000	1.0000	1.0000
winequality-red	0.3593	0.5263	0.5336
winequality-white	0.4908	0.5386	0.5445
winnipeg10%	0.9911	0.9856	0.9857
wisc.bc	0.9817	0.9627	0.9633
yale	0.7318	0.7322	0.7416
yeast	0.4446	0.4481	0.4548
yeastCYT-POX	0.9047	0.7897	0.8078
yeastEXC	0.7431	0.4861	0.4861
yeastME1	0.9318	0.8538	0.8630
yeastME2	0.7773	0.4325	0.5253
zip	0.9214	0.9192	0.9193

Table 11: Detailed results for Crazier (ovo)

Dataset	F1-macro	Kappa	MCC
abalone	0.1102	0.0614	0.0624
abalone19	0.4982	0.0000	0.0000
accelerometer	0.7308	0.3839	0.4390
ads	0.9548	0.9055	0.9096
adult	0.7900	0.5661	0.5792
advanced-iot	1.0000	1.0000	1.0000
AID_1431	0.4772	0.0000	0.0000
AID_1431_KlekotaRothFingerprinter	0.4772	0.0000	0.0000
AID_1431_MACCSFingerprinter	0.4772	0.0000	0.0000
AID_1878	0.4503	0.0000	0.0000
AID_602330	0.4880	-0.0093	0.0000
AID_652128	0.3118	0.0000	0.0000
AID1284red	0.7333	0.3010	0.4209
AID1608Moredred	0.4824	0.0000	0.0000
AID1608red	0.4824	-0.0169	0.0000
AID362red	0.4965	0.0000	0.0000
AID373AID439red	0.5000	0.0000	0.0000
AID373red	0.7367	0.2855	0.4081
AID456red	0.4992	0.0000	0.0000
AID604	0.9850	0.9696	0.9700
AID604AID644_AllRed	0.4997	0.0000	0.0000
AID687AID721red	0.4998	0.0000	0.0000
AID687red	0.4992	0.0000	0.0000
AID688red	0.4977	0.0000	0.0000
AID721moredred	0.4375	0.0000	0.0000
AID721red	0.4375	0.0000	0.0000
AID746AID1284red	0.4997	0.0000	0.0000
AID746red	0.6833	0.2311	0.3134
aids	0.8494	0.6986	0.6988
air_pollution	0.0826	0.0000	0.0000
alcohol	0.6054	0.6647	0.7042
all-aml	1.0000	1.0000	1.0000
anneal	1.0000	1.0000	1.0000
antivirus	1.0000	1.0000	1.0000
anuran-f-b	1.0000	1.0000	1.0000
anxiety	0.0958	-0.0146	0.0000
apple-quality	0.8196	0.6350	0.6392
aps-failure	0.8665	0.7274	0.7323
arabidopsis1%	0.4980	0.0000	0.0000
arcene	0.7292	0.4231	0.4583
arrhythmia	0.4209	0.3878	0.4918
auction	0.9889	0.9776	0.9778
audiology	0.6654	0.7848	0.7908
audit-risk	1.0000	1.0000	1.0000
autism-adolescent	1.0000	1.0000	1.0000
autism-adult	1.0000	1.0000	1.0000
autism-child	1.0000	1.0000	1.0000
autos	0.9064	0.8667	0.8758
avila	0.9974	0.9988	0.9988
balance	0.7452	0.6381	0.6552
bank	0.7795	0.5589	0.5591
bankruptcy	1.0000	1.0000	1.0000
bio	0.8634	0.6911	0.7219
biodeg	0.8780	0.7553	0.7560
biomed	1.0000	1.0000	1.0000
Continued on next page			

Dataset	F1-macro	Kappa	MCC
bitcoin10%	0.2659	0.0855	0.1603
body-perf	0.7275	0.6308	0.6353
brain-tumor	0.5245	0.0490	0.0490
breast-cancer	0.6633	0.3099	0.3244
breast-cancer-ma	0.6309	0.2414	0.2609
breast-tissue	0.7179	0.6733	0.6869
bridges	0.8192	0.8485	0.8641
bub12at310k-hg16-17	0.7015	0.3839	0.3984
cad	1.0000	1.0000	1.0000
cancer	1.0000	1.0000	1.0000
cancer-uae	0.2992	-0.0443	0.0000
car-insurance	0.8148	0.6277	0.6296
cardiotocography-nsp	0.8648	0.7876	0.7892
cardiovascular	0.7313	0.4585	0.4625
cargo2k	1.0000	1.0000	1.0000
cars	0.8096	0.7324	0.7354
ccds10%	0.6780	0.0665	0.1854
cdc_diabetes	0.4519	0.3218	0.3319
census	0.7524	0.4958	0.4939
cervical-B	0.8563	0.7088	0.7122
cervical-H	0.8728	0.7101	0.7420
cervical-S	0.8481	0.6446	0.6896
children-anemia	0.9181	0.9079	0.9092
chrom19	0.9460	0.8873	0.8917
chrom211%	0.4998	0.0000	0.0000
churn	0.7635	0.5217	0.5264
cjs	1.0000	1.0000	1.0000
ckd	1.0000	1.0000	1.0000
clave	0.6903	0.6578	0.6580
cll_sub_111	0.7222	0.4545	0.4545
cmc	0.5550	0.3390	0.3408
cnae-9	0.9649	0.9583	0.9586
codon_usage	0.7100	0.8492	0.8514
coil20	1.0000	1.0000	1.0000
college	0.9172	0.8338	0.8343
collins	1.0000	1.0000	1.0000
colon-tumor	0.8537	0.6667	0.7071
colposcopies-1	0.7797	0.4663	0.5514
colposcopies-2	0.7264	0.3176	0.4345
colposcopies-4	0.7810	0.4649	0.5504
colposcopies-5	0.4528	0.0000	0.0000
colposcopies-c	0.8054	0.5323	0.6022
column-2c	0.9342	0.8597	0.8683
column-3c	0.7007	0.6353	0.6364
connect-4	0.7954	0.7621	0.7658
coupon	0.7501	0.4994	0.5002
covtype	0.9274	0.9223	0.9239
covtypeCD	0.9832	0.9663	0.9663
covtypeT	0.9441	0.8880	0.8882
crabs	0.9141	0.8667	0.8785
creditcard_trans	0.9230	0.8331	0.8449
crowdsourced	0.8184	0.8633	0.8650
cryotherapy	0.8163	0.5714	0.6325
cultivars	0.5144	0.5484	0.5551
cybersecurity	0.1947	0.0318	0.0319
cyclopentane	0.6181	0.2241	0.2358
cylinder-bands	0.7908	0.5811	0.5815
datatrieve	0.4800	0.0000	0.0000
Continued on next page			

Dataset	F1-macro	Kappa	MCC
dating	0.1070	0.0078	0.0079
dbworld	1.0000	1.0000	1.0000
default	0.7175	0.4290	0.4342
dementia	1.0000	1.0000	1.0000
deposit	0.7578	0.5154	0.5155
depressed	0.6649	0.0675	0.1869
dermatology	0.9429	0.9325	0.9325
desharnais	1.0000	1.0000	1.0000
df_final	0.8786	0.8072	0.8123
DIA	0.7692	0.4286	0.5222
diabetes-100k	0.8926	0.7603	0.7831
diagnosis	1.0000	1.0000	1.0000
diamonds	1.0000	1.0000	1.0000
diamonds_all	0.7448	0.6563	0.6588
dishonest	1.0000	1.0000	1.0000
dlbcl-nih	0.3333	-0.1613	0.0000
dlbcl-stanford	0.8333	0.6154	0.6667
dna0.1%	0.4993	0.0000	0.0000
dota2	0.5657	0.1286	0.1314
drebin	0.9891	0.9781	0.9783
dropout	0.6796	0.5871	0.5929
ecoli	0.7121	0.7957	0.7966
ecoliCP-IM	1.0000	1.0000	1.0000
ecoliM	0.9175	0.8350	0.8350
ecoliMU	0.7024	0.3678	0.3975
ecoliOM	0.8514	0.6526	0.6960
ecommerce	0.2801	0.0386	0.0388
euthyroid	0.9267	0.8527	0.8533
fakenews	0.4923	-0.0154	0.0000
fbis-wc	0.7478	0.7407	0.7433
finance	0.8029	0.5978	0.6057
financial-risk	0.4722	0.5562	0.5963
flags	0.6293	0.8101	0.8181
forest	0.9069	0.8937	0.8983
gas	0.9970	0.9965	0.9965
gastrointestinal	0.6179	0.6643	0.7206
gender	0.4830	0.1734	0.1809
german	0.7121	0.3812	0.4202
gestures	0.8871	0.8482	0.8488
gina	0.8962	0.7924	0.7924
gisette	0.9315	0.8629	0.8629
glass	0.7572	0.7981	0.8008
glass-g2	1.0000	1.0000	1.0000
glassBWFP	1.0000	1.0000	1.0000
glassBWNFP	0.9472	0.8889	0.8944
glassContainers	0.8483	0.6452	0.6901
glassNW	0.9340	0.8591	0.8677
glassTableware	1.0000	1.0000	1.0000
GlaucomaM	0.7978	0.5824	0.5955
gli_85	1.0000	1.0000	1.0000
glioma	0.8333	0.7059	0.7500
glioma-grade	0.8845	0.7610	0.7689
green	0.6098	0.2105	0.2182
gsalc	1.0000	1.0000	1.0000
haberman	0.6698	0.3226	0.3371
hapt	0.8151	0.9221	0.9223
har	0.9922	0.9910	0.9910
harth10%	0.6033	0.8146	0.8152
Continued on next page			

Dataset	F1-macro	Kappa	MCC
health-activity	0.2175	0.0000	0.0000
heart	0.8064	0.6110	0.6128
heart-c	0.9330	0.8661	0.8661
heart-failure	0.9861	0.9719	0.9722
heart-quantum	0.9249	0.8387	0.8498
hepatitis	0.7266	0.4444	0.4523
higher	0.2264	0.1411	0.1750
hinselmann	0.4444	0.0000	0.0000
hitters	0.9373	0.8745	0.8745
hiv1-proteasa	0.7556	0.4258	0.4952
hiva	0.5844	0.1005	0.1361
horse	0.6559	0.4253	0.4688
hotel-reservartions	0.8968	0.7931	0.7935
hr	0.4633	0.0000	0.0000
ht-sensor	1.0000	1.0000	1.0000
htru2	0.9337	0.8651	0.8673
hypothyroid	0.7320	0.9368	0.9368
immuno-therapy	0.8333	0.6087	0.6614
ionosphere	0.9337	0.8674	0.8674
iris	0.9333	0.8993	0.9054
irish	1.0000	1.0000	1.0000
isolet	0.8840	0.8758	0.8762
jm1	0.6696	0.3274	0.3369
jvowels	0.9635	0.9613	0.9614
kc1-class-level-numericdefect	0.1636	0.0000	0.0000
kc1-class-level-top5percentDF	0.4828	0.0000	0.0000
kc2	0.7312	0.4595	0.4622
kdc-4007	0.5894	0.4112	0.4461
kddcup991%	0.8926	0.9983	0.9983
kidney	0.1778	0.0000	0.0000
kidney-disease	1.0000	1.0000	1.0000
la2s-wc	0.7866	0.7403	0.7499
labor	1.0000	1.0000	1.0000
leaf	0.6435	0.6909	0.6992
led24	0.6748	0.6023	0.6057
lenses	1.0000	1.0000	1.0000
letter	0.9519	0.9495	0.9496
linkage1%	1.0000	1.0000	1.0000
loan	0.9664	0.9312	0.9328
lrs	0.6315	0.7920	0.8002
lung_discrete	0.9164	0.8400	0.8573
lymphography	0.5520	0.6000	0.6181
lymphoma2	0.6027	0.6842	0.7120
machine-failure	0.9251	0.8483	0.8501
magic04	0.8562	0.7065	0.7124
malware	1.0000	1.0000	1.0000
mammography	0.8745	0.7490	0.7490
marketing	0.7645	0.4636	0.5171
mba	0.4512	0.3392	0.3424
mental-disorders	0.9270	0.8889	0.8972
messidor	0.6541	0.3051	0.3081
meter-A	0.7241	0.3333	0.4472
meter-B	1.0000	1.0000	1.0000
meter-C	1.0000	1.0000	1.0000
meter-D	0.8784	0.8448	0.8561
mfeat-fac	0.9508	0.9444	0.9447
mfeat-fou	0.7606	0.7333	0.7345
mfeat-kar	0.9284	0.9167	0.9173
Continued on next page			

Dataset	F1-macro	Kappa	MCC
mfeat-mor	0.7032	0.7000	0.7081
mfeat-pix	0.9804	0.9778	0.9779
mfeat-zer	0.7589	0.7278	0.7281
mice-prot	1.0000	1.0000	1.0000
milk	1.0000	1.0000	1.0000
mines	0.6483	0.5584	0.5627
mobile	0.9365	0.9324	0.9326
monks-1	1.0000	1.0000	1.0000
monks-3	0.9824	0.9642	0.9648
mushroom	1.0000	1.0000	1.0000
music	0.5321	0.3888	0.3904
MUT_ci300400a_cdk_ECFP2	0.8282	0.6544	0.6564
MUT_ci300400a_cdk_ECFP4	0.8357	0.6681	0.6714
MUT_ci300400a_cdk_ECFP6	0.8110	0.6219	0.6219
MUT_ci300400a_cdk_ESTATE	0.7818	0.5628	0.5637
MUT_ci300400a_cdk_EXTENDED	0.8551	0.7100	0.7101
MUT_ci300400a_cdk_FCFP2	0.8401	0.6795	0.6801
MUT_ci300400a_cdk_FCFP4	0.7997	0.5979	0.5994
MUT_ci300400a_cdk_FCFP6	0.8031	0.6028	0.6062
MUT_ci300400a_cdk_MACCS	0.8400	0.6800	0.6800
MUT_ci300400a_cdk_PUBCHEM	0.8741	0.7481	0.7482
MUT_ci300400a_cdk_STANDARD	0.8383	0.6766	0.6767
MUT_ci300400a_rdkit_descriptors	0.8546	0.7090	0.7092
myocardial	0.3102	0.3867	0.4911
naticusdroid	0.9691	0.9381	0.9382
nci9	0.7895	0.8000	0.8281
ncRNA10%	0.7098	0.8324	0.8349
neo	0.7577	0.4162	0.5016
new-thyroid	1.0000	1.0000	1.0000
new-thyroidT	1.0000	1.0000	1.0000
newspop	0.6701	0.3401	0.3401
NHANES_age_prediction	1.0000	1.0000	1.0000
nomao	0.9593	0.9187	0.9187
nursery	0.9551	0.9527	0.9535
obesity	0.9526	0.9446	0.9452
obs	1.0000	1.0000	1.0000
oh0-wc	0.8387	0.8053	0.8107
oh10-wc	0.6933	0.7031	0.7106
oh15-wc	0.7650	0.7116	0.7186
oh5-wc	0.8250	0.7617	0.7691
olive	0.9385	0.9343	0.9362
optdigits	0.9572	0.9505	0.9506
orlraws10P	1.0000	1.0000	1.0000
ozone1hr	0.4909	0.0000	0.0000
p53-mutants10%	0.4992	0.0000	0.0000
parkinson	0.9915	0.9828	0.9830
particle	0.9067	0.8132	0.8134
pc1	0.6396	0.2671	0.2754
pcmac	0.3660	-0.0103	0.0000
pediatric-leukemia	0.5881	0.6670	0.6814
pendigits	0.9899	0.9889	0.9889
period-10f	0.5950	0.1818	0.1890
persistence	0.7778	0.5499	0.5555
personalities	0.9534	0.9502	0.9502
pet-adoption	0.8937	0.7701	0.7870
phishing	0.9700	0.9399	0.9400
PhiUSIL10%	0.9996	0.9991	0.9991
phy	0.7099	0.4197	0.4199
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Dataset	F1-macro	Kappa	MCC
pima	0.7027	0.3824	0.4041
pirvision	1.0000	1.0000	1.0000
placement	0.7864	0.5726	0.5727
plrx	0.4194	0.0000	0.0000
polya	0.7336	0.4384	0.4652
popularity	0.4324	0.2548	0.2844
post-operative	0.4000	0.0000	0.0000
postures	0.9843	0.9806	0.9806
pred-tox_mutagen_ref-desc	0.6913	0.3824	0.3825
prestige	0.8889	0.8302	0.8462
primary-tumor	0.3783	0.4246	0.4322
processed	1.0000	1.0000	1.0000
profb	0.5866	0.1577	0.1707
promoters	0.9083	0.8000	0.8165
puc-rio	0.9881	0.9912	0.9912
pufs-1281%	0.5068	0.0131	0.0135
pufs-6410%	0.5019	0.0039	0.0039
pulsar	0.9485	0.8950	0.8969
raisin	0.8904	0.7778	0.7809
rejafada	1.0000	1.0000	1.0000
relathe	1.0000	1.0000	1.0000
rice	0.9861	0.9722	0.9723
rocket	0.7133	0.4246	0.4266
RT_IOT2022	0.9808	0.9963	0.9963
satimage	0.8812	0.8712	0.8717
scadi	0.6984	0.6316	0.6860
schiller	0.8333	0.6087	0.6614
sclerosis	1.0000	1.0000	1.0000
secom	0.4834	0.0000	0.0000
secondary_mushroom	1.0000	1.0000	1.0000
seeds	0.9553	0.9286	0.9317
segment	0.9694	0.9595	0.9598
segmentation	0.8404	0.6802	0.6809
segmentO	1.0000	1.0000	1.0000
seismic	0.4819	-0.0074	0.0000
sens-2-gram	0.6601	0.0342	0.1320
sens-3-gram	0.6687	0.0675	0.1869
sens-4-gram	0.5838	0.0286	0.0793
sensorless	0.9978	0.9976	0.9976
shoppers	0.8096	0.6176	0.6191
sick	0.8708	0.7291	0.7402
sirtuin6	1.0000	1.0000	1.0000
smarket	0.9921	0.9840	0.9841
smk_can_187	0.6841	0.3596	0.3680
smoking	0.8327	0.6515	0.6653
soil_pollution	0.2057	0.0119	0.0120
solar-flare	0.7458	0.7346	0.7420
sonar	0.6741	0.3000	0.3464
soybean	1.0000	1.0000	1.0000
spam-detection	0.8671	0.7340	0.7341
spambase	0.9522	0.9041	0.9043
spect	0.6250	0.2500	0.2500
spectf	0.8956	0.7692	0.7906
spectrometer	0.4190	0.5102	0.5133
squash-unstored	1.0000	1.0000	1.0000
startup	1.0000	1.0000	1.0000
steel_industry	0.8670	0.8288	0.8290
stellar	0.9683	0.9506	0.9507
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Dataset	F1-macro	Kappa	MCC
stock	0.7804	0.5607	0.5608
stockb	1.0000	1.0000	1.0000
streaming	0.9395	0.8782	0.8789
stress	1.0000	1.0000	1.0000
student-depression	0.8229	0.6444	0.6459
student-habits	0.1755	0.0181	0.0195
student-lifestyle	0.3514	0.3797	0.3814
student-weekend	0.2261	0.0842	0.0937
student-workday	0.2655	0.0777	0.1982
studentap	0.5111	0.2909	0.2909
swarm_aligned	1.0000	1.0000	1.0000
swarm_flocking	1.0000	1.0000	1.0000
swarm_grouped	1.0000	1.0000	1.0000
tae	0.4000	0.1000	0.1007
telco-churn	0.8619	0.7220	0.7237
texture	0.9796	0.9759	0.9760
theorem	0.9597	0.9188	0.9193
thoracic	0.4598	0.0000	0.0000
Thyroid_Diff	0.9365	0.8648	0.8728
tis	0.8434	0.6614	0.6852
titanic	0.7934	0.5163	0.5813
tourist	0.5250	0.6364	0.6848
trains	0.3333	0.0000	0.0000
transfusion	0.5591	0.1168	0.1179
tuandromd	0.9853	0.9706	0.9707
turkish	0.7756	0.7000	0.7018
tvnews	0.9441	0.8874	0.8882
ur3_cobotops_grip	0.7655	0.3921	0.4938
ur3_cobotops_stop	0.7360	0.4501	0.4665
urban	0.8665	0.8252	0.8274
ustilago10%	0.4973	0.0000	0.0000
vehicle	0.7261	0.6936	0.6951
vote	0.9307	0.8605	0.8615
vowel	0.6861	0.6000	0.6123
wap-wc	0.5145	0.7081	0.7184
warpar10p	0.6055	0.6533	0.6668
warppie10p	1.0000	1.0000	1.0000
waveform	0.8391	0.7571	0.7592
weather-related	0.9803	0.9738	0.9741
weight-lift	0.9975	0.9968	0.9968
white-clover	0.5000	0.0000	0.0000
wifi-loc	0.9902	0.9867	0.9868
wilt	0.9342	0.8685	0.8685
wine	1.0000	1.0000	1.0000
winequality-red	0.3519	0.4985	0.5048
winequality-white	0.4788	0.5038	0.5093
winnipeg10%	0.9914	0.9864	0.9864
wisc.bc	0.9817	0.9627	0.9633
yale	0.7652	0.7983	0.8051
yeast	0.4521	0.4691	0.4740
yeastCYT-POX	0.9047	0.7897	0.8078
yeastEXC	0.7431	0.4861	0.4861
yeastME1	0.9318	0.8538	0.8630
yeastME2	0.7773	0.4325	0.5253
zip	0.9210	0.9192	0.9193

Table 12: Detailed results for Crazier

Dataset	F1-macro	Kappa	MCC
abalone	0.1004	0.0575	0.0584
abalone19	0.4976	-0.0036	0.0000
accelerometer	0.6256	0.1659	0.2143
ads	0.9229	0.8455	0.8458
adult	0.7658	0.4886	0.5298
advanced-iot	1.0000	1.0000	1.0000
AID_1431	0.4772	0.0000	0.0000
AID_1431_KlekotaRothFingerprinter	0.4728	-0.0276	0.0000
AID_1431_MACCSFingerprinter	0.4728	-0.0276	0.0000
AID_1878	0.5065	0.0086	0.0111
AID_602330	0.4880	-0.0093	0.0000
AID_652128	0.3080	-0.0221	0.0000
AID1284red	0.7677	0.5355	0.5355
AID1608Morered	0.5965	0.1660	0.1826
AID1608red	0.5354	0.0682	0.0698
AID362red	0.4768	-0.0242	0.0000
AID373AID439red	0.4935	-0.0003	0.0000
AID373red	0.5334	0.0089	0.0254
AID456red	0.4965	-0.0047	0.0000
AID604	0.6216	0.0223	0.0920
AID604AID644_AllRed	0.4919	-0.0019	0.0000
AID687AID721red	0.5968	0.0148	0.0602
AID687red	0.4913	-0.0055	0.0000
AID688red	0.4914	-0.0136	0.0000
AID721morered	1.0000	1.0000	1.0000
AID721red	0.8333	0.6087	0.6614
AID746AID1284red	0.4931	-0.0019	0.0000
AID746red	0.5252	0.0302	0.0397
aids	0.8483	0.6934	0.6965
air_pollution	0.0826	0.0000	0.0000
alcohol	0.6304	0.6439	0.6574
all-aml	1.0000	1.0000	1.0000
anneal	0.9872	0.9766	0.9769
antivirus	1.0000	1.0000	1.0000
anuran-f-b	1.0000	1.0000	1.0000
anxiety	0.1079	0.0046	0.0046
apple-quality	0.8154	0.6250	0.6308
aps-failure	0.6603	0.2307	0.2884
arabidopsis1%	0.4980	0.0000	0.0000
arcene	0.6926	0.3396	0.3852
arrhythmia	0.2775	0.1456	0.2860
auction	0.8435	0.6686	0.6855
audiology	0.4248	0.6349	0.6477
audit-risk	0.9869	0.9734	0.9737
autism-adolescent	0.9141	0.8136	0.8281
autism-adult	1.0000	1.0000	1.0000
autism-child	0.9348	0.8612	0.8697
autos	0.9064	0.8667	0.8758
avila	0.9977	0.9994	0.9994
balance	0.5061	0.4790	0.4792
bank	0.7460	0.4918	0.4919
bankruptcy	0.9606	0.9180	0.9211
bio	0.8237	0.6407	0.6463
biodeg	0.8365	0.6706	0.6729
biomed	1.0000	1.0000	1.0000
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Dataset	F1-macro	Kappa	MCC
bitcoin10%	0.3160	0.4378	0.4594
body-perf	0.6964	0.5910	0.5965
brain-tumor	0.5084	0.0162	0.0168
breast-cancer	0.6210	0.2410	0.2418
breast-cancer-ma	0.5345	0.0678	0.0690
breast-tissue	0.7407	0.7800	0.8042
bridges	0.6061	0.7143	0.7470
bub12at310k-hg16-17	0.6908	0.3499	0.3732
cad	1.0000	1.0000	1.0000
cancer	1.0000	1.0000	1.0000
cancer-uae	0.3000	-0.0417	0.0000
car-insurance	0.8032	0.6021	0.6063
cardiotocography-nsp	0.8066	0.7166	0.7190
cardiovascular	0.7274	0.4507	0.4547
cargo2k	1.0000	1.0000	1.0000
cars	0.7790	0.7324	0.7354
ccds10%	0.5427	0.0481	0.0660
cdc_diabetes	0.4457	0.3214	0.3306
census	0.7258	0.4503	0.4514
cervical-B	0.7589	0.5147	0.5171
cervical-H	0.8269	0.6485	0.6530
cervical-S	0.8481	0.6446	0.6896
children-anemia	0.8368	0.8895	0.8907
chrom19	0.7843	0.5261	0.5590
chrom211%	0.4998	0.0000	0.0000
churn	0.7426	0.4798	0.4846
cjs	0.9915	0.9869	0.9870
ckd	1.0000	1.0000	1.0000
clave	0.6325	0.6270	0.6366
cll_sub_111	0.5945	0.2174	0.2548
cmc	0.5533	0.3384	0.3438
cnae-9	0.9564	0.9479	0.9485
codon_usage	0.6536	0.8022	0.8070
coil20	1.0000	1.0000	1.0000
college	0.9172	0.8338	0.8343
collins	0.8045	0.8895	0.8923
colon-tumor	0.8537	0.6667	0.7071
colposcopies-1	0.6821	0.3591	0.3638
colposcopies-2	0.6575	0.2478	0.3056
colposcopies-4	0.6667	0.3165	0.3310
colposcopies-5	0.4528	0.0000	0.0000
colposcopies-c	0.6919	0.3741	0.3825
column-2c	0.8362	0.6578	0.6722
column-3c	0.7109	0.5908	0.6198
connect-4	0.6421	0.5574	0.5574
coupon	0.6593	0.3187	0.3187
covtype	0.9135	0.9162	0.9164
covtypeCD	0.9685	0.9370	0.9370
covtypeT	0.9187	0.8368	0.8374
crabs	0.7979	0.7333	0.7358
creditcard_trans	0.6035	0.0918	0.1472
crowdsourced	0.7166	0.8363	0.8408
cryotherapy	0.8163	0.5714	0.6325
cultivars	0.5651	0.6129	0.6205
cybersecurity	0.1687	0.0002	0.0002
cyclopentane	0.6657	0.3306	0.3315
cylinder-bands	0.7221	0.4414	0.4442
datatrieve	0.3810	-0.1404	0.0000
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Dataset	F1-macro	Kappa	MCC
dating	0.1038	0.0035	0.0035
dbworld	1.0000	1.0000	1.0000
default	0.7105	0.4143	0.4201
dementia	1.0000	1.0000	1.0000
deposit	0.7405	0.4790	0.4806
depressed	0.6649	0.0675	0.1869
dermatology	0.9429	0.9325	0.9325
desharnais	0.6073	0.2727	0.3254
df_final	0.8880	0.8072	0.8225
DIA	0.7302	0.3889	0.4491
diabetes-100k	0.8821	0.7343	0.7613
diagnosis	1.0000	1.0000	1.0000
diamonds	0.9275	0.9097	0.9142
diamonds_all	0.6871	0.5911	0.5980
dishonest	1.0000	1.0000	1.0000
dlbcl-nih	0.6202	0.2394	0.2403
dlbcl-stanford	0.7059	0.2857	0.4082
dna0.1%	0.4991	-0.0012	0.0000
dota2	0.5616	0.1226	0.1232
drebin	0.9370	0.8716	0.8740
dropout	0.6696	0.5831	0.5951
ecoli	0.6954	0.7942	0.7982
ecoliCP-IM	1.0000	1.0000	1.0000
ecoliM	0.8253	0.6341	0.6500
ecoliMU	0.7292	0.4359	0.4543
ecoliOM	0.6296	0.2180	0.2469
ecommerce	0.2487	0.0005	0.0005
euthyroid	0.8855	0.7708	0.7709
fakenews	0.4546	-0.0907	0.0000
fbis-wc	0.7038	0.7315	0.7398
finance	0.7418	0.4832	0.4836
financial-risk	0.4586	0.5476	0.5827
flags	0.4402	0.6190	0.6273
forest	0.8552	0.8408	0.8426
gas	0.9943	0.9939	0.9939
gastrointestinal	0.5359	0.4161	0.5135
gender	0.4937	0.1887	0.1964
german	0.6151	0.2020	0.2260
gestures	0.8849	0.8436	0.8462
gina	0.9107	0.8213	0.8214
gisette	0.9302	0.8600	0.8604
glass	0.7292	0.7255	0.7310
glass-g2	0.8091	0.6129	0.6181
glassBWFP	0.8467	0.6897	0.6934
glassBWNFP	0.7361	0.4375	0.4719
glassContainers	1.0000	1.0000	1.0000
glassNW	0.9340	0.8591	0.8677
glassTableware	0.7471	0.3529	0.4629
GlaucomaM	0.7978	0.5824	0.5955
gli_85	0.3846	-0.2000	0.0000
glioma	0.8333	0.7059	0.7500
glioma-grade	0.8845	0.7610	0.7689
green	0.5238	0.0476	0.0476
gsalc	0.9167	0.8657	0.8788
haberman	0.4886	-0.0227	0.0000
hapt	0.7753	0.8992	0.8999
har	0.9859	0.9832	0.9833
harth10%	0.5473	0.8007	0.8028
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Dataset	F1-macro	Kappa	MCC
health-activity	0.2175	0.0000	0.0000
heart	0.7794	0.5525	0.5587
heart-c	0.9067	0.7964	0.8134
heart-failure	0.9580	0.9159	0.9160
heart-quantum	0.9083	0.8000	0.8165
hepatitis	0.8077	0.5455	0.6124
higher	0.2205	0.0610	0.0625
hinselmann	0.4444	0.0000	0.0000
hitters	0.9373	0.8745	0.8745
hiv1-proteasa	0.7294	0.4149	0.4506
hiva	0.5200	0.0398	0.0399
horse	0.4383	0.0642	0.0927
hotel-reservartions	0.8584	0.7166	0.7167
hr	0.4623	-0.0069	0.0000
ht-sensor	0.9833	0.9749	0.9749
htru2	0.9296	0.8546	0.8590
hypothyroid	0.6936	0.8880	0.8882
immuno-therapy	0.6786	0.3571	0.3571
ionosphere	0.9038	0.8059	0.8076
iris	1.0000	1.0000	1.0000
irish	1.0000	1.0000	1.0000
isolet	0.8644	0.8558	0.8563
jm1	0.6183	0.2269	0.2344
jvowels	0.9490	0.9465	0.9466
kc1-class-level-numericdefect	0.1636	0.0000	0.0000
kc1-class-level-top5percentDF	0.4643	-0.0714	0.0000
kc2	0.7312	0.4595	0.4622
kdc-4007	0.5603	0.3486	0.4008
kddcup991%	0.8114	0.9976	0.9976
kidney	0.1778	0.0000	0.0000
kidney-disease	1.0000	1.0000	1.0000
la2s-wc	0.7402	0.6531	0.6712
labor	1.0000	1.0000	1.0000
leaf	0.6845	0.7213	0.7280
led24	0.6739	0.5989	0.6059
lenses	0.5714	0.5000	0.6124
letter	0.9447	0.9428	0.9428
linkage1%	0.9634	0.9266	0.9268
loan	0.9609	0.9210	0.9217
lrs	0.6029	0.7643	0.7737
lung_discrete	1.0000	1.0000	1.0000
lymphography	0.4934	0.4510	0.4560
lymphoma2	0.4194	0.5000	0.5511
machine-failure	0.9352	0.8695	0.8703
magic04	0.8394	0.6734	0.6786
malware	1.0000	1.0000	1.0000
mammography	0.8543	0.7080	0.7086
marketing	0.6655	0.3198	0.3284
mba	0.4097	0.2301	0.2314
mental-disorders	0.9270	0.8889	0.8972
messidor	0.6266	0.2513	0.2532
meter-A	0.8730	0.7143	0.7454
meter-B	0.7500	0.5263	0.6005
meter-C	1.0000	1.0000	1.0000
meter-D	0.9583	0.9234	0.9274
mfeat-fac	0.9454	0.9389	0.9391
mfeat-fou	0.7829	0.7611	0.7629
mfeat-kar	0.9722	0.9667	0.9671
Continued on next page			

Dataset	F1-macro	Kappa	MCC
mfeat-mor	0.6752	0.6444	0.6451
mfeat-pix	0.9854	0.9833	0.9834
mfeat-zer	0.7944	0.7778	0.7787
mice-prot	0.9791	0.9788	0.9792
milk	0.9919	0.9855	0.9857
mines	0.5718	0.4837	0.4935
mobile	0.9445	0.9395	0.9397
monks-1	1.0000	1.0000	1.0000
monks-3	0.9642	0.9285	0.9285
mushroom	1.0000	1.0000	1.0000
music	0.5122	0.3822	0.3885
MUT_ci300400a_cdk_ECFP2	0.7515	0.4938	0.5031
MUT_ci300400a_cdk_ECFP4	0.7721	0.5332	0.5442
MUT_ci300400a_cdk_ECFP6	0.7426	0.4824	0.4852
MUT_ci300400a_cdk_ESTATE	0.7318	0.4605	0.4635
MUT_ci300400a_cdk_EXTENDED	0.7607	0.5182	0.5213
MUT_ci300400a_cdk_FCFP2	0.7923	0.5834	0.5846
MUT_ci300400a_cdk_FCFP4	0.7250	0.4392	0.4501
MUT_ci300400a_cdk_FCFP6	0.7474	0.4796	0.4949
MUT_ci300400a_cdk_MACCS	0.7857	0.5685	0.5715
MUT_ci300400a_cdk_PUBCHEM	0.7802	0.5582	0.5603
MUT_ci300400a_cdk_STANDARD	0.7562	0.5117	0.5124
MUT_ci300400a_rdkit_descriptors	0.7690	0.5343	0.5380
myocardial	0.2414	0.2917	0.4167
naticusdroid	0.9606	0.9209	0.9212
nci9	0.7895	0.8000	0.8281
ncRNA10%	0.6744	0.8188	0.8234
neo	0.7337	0.3580	0.4510
new-thyroid	1.0000	1.0000	1.0000
new-thyroidT	1.0000	1.0000	1.0000
newspop	0.6567	0.3124	0.3133
NHANES_age_prediction	0.9919	0.9837	0.9838
nomao	0.9232	0.8457	0.8465
nursery	0.9268	0.9365	0.9368
obesity	0.9421	0.9336	0.9340
obs	0.9445	0.9323	0.9339
oh0-wc	0.8780	0.8643	0.8651
oh10-wc	0.7435	0.7703	0.7760
oh15-wc	0.8289	0.7747	0.7832
oh5-wc	0.8678	0.8377	0.8401
olive	0.9174	0.9123	0.9157
optdigits	0.9611	0.9545	0.9546
orlraws10P	1.0000	1.0000	1.0000
ozone1hr	0.4889	-0.0131	0.0000
p53-mutants10%	0.4992	0.0000	0.0000
parkinson	0.9915	0.9828	0.9830
particle	0.9035	0.8067	0.8069
pc1	0.6879	0.3683	0.3739
pcmac	0.5094	0.0132	0.0175
pediatric-leukemia	0.5530	0.5939	0.6160
pendigits	0.9781	0.9757	0.9757
period-10f	0.7568	0.4000	0.5000
persistence	0.7773	0.5541	0.5546
personalities	0.9780	0.9765	0.9765
pet-adoption	0.8804	0.7480	0.7604
phishing	0.9318	0.8635	0.8636
PhiUSIIL10%	0.9944	0.9887	0.9888
phy	0.7046	0.4086	0.4092
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Dataset	F1-macro	Kappa	MCC
pima	0.6580	0.3070	0.3155
pirvision	0.8146	0.7294	0.7361
placement	0.7772	0.5545	0.5545
plrx	0.4000	-0.1020	0.0000
polya	0.7035	0.3799	0.4049
popularity	0.4867	0.2173	0.2502
post-operative	0.5000	0.0000	0.0000
postures	0.9864	0.9832	0.9832
pred-tox_mutagen_ref-desc	0.6324	0.2647	0.2648
prestige	0.8889	0.8302	0.8462
primary-tumor	0.4020	0.3857	0.3949
processed	0.9981	0.9962	0.9962
profb	0.5412	0.0792	0.0819
promoters	0.7143	0.2857	0.4082
puc-rio	0.9869	0.9901	0.9901
pufs-1281%	0.5052	0.0085	0.0103
pufs-6410%	0.5006	0.0013	0.0013
pulsar	0.9459	0.8895	0.8917
raisin	0.8578	0.7111	0.7155
rejafada	0.9665	0.9307	0.9330
relathe	0.9929	0.9858	0.9859
rice	0.9850	0.9700	0.9700
rocket	0.6824	0.3595	0.3647
RT_IOT2022	0.9658	0.9906	0.9906
satimage	0.8709	0.8594	0.8603
scadi	0.6600	0.6316	0.6667
schiller	0.4375	0.0000	0.0000
sclerosis	1.0000	1.0000	1.0000
secom	0.4834	0.0000	0.0000
secondary_mushroom	0.9995	0.9990	0.9990
seeds	0.9152	0.8571	0.8660
segment	0.9605	0.9494	0.9494
segmentation	0.8266	0.6515	0.6533
segmentO	0.9609	0.9187	0.9218
seismic	0.5789	0.1334	0.1480
sens-2-gram	0.5838	0.0286	0.0793
sens-3-gram	0.6601	0.0342	0.1320
sens-4-gram	0.5694	0.0500	0.0917
sensorless	0.9986	0.9985	0.9985
shoppers	0.8089	0.6164	0.6177
sick	0.8353	0.6625	0.6695
sirtuin6	1.0000	1.0000	1.0000
smarket	1.0000	1.0000	1.0000
smk_can_187	0.6292	0.2570	0.2584
smoking	0.7632	0.5068	0.5264
soil_pollution	0.1655	-0.0385	0.0000
solar-flare	0.7496	0.7324	0.7411
sonar	0.6094	0.2000	0.2182
soybean	0.9753	0.9516	0.9528
spam-detection	0.8671	0.7340	0.7341
spambase	0.9270	0.8534	0.8540
spect	0.7900	0.5652	0.5791
spectf	0.7481	0.4948	0.4961
spectrometer	0.4316	0.4992	0.5045
squash-unstored	0.8333	0.6154	0.6667
startup	1.0000	1.0000	1.0000
steel_industry	0.8554	0.8127	0.8128
stellar	0.9654	0.9460	0.9462
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Dataset	F1-macro	Kappa	MCC
stock	0.8214	0.6426	0.6428
stockb	1.0000	1.0000	1.0000
streaming	0.9272	0.8543	0.8543
stress	0.9679	0.9603	0.9603
student-depression	0.8121	0.6225	0.6241
student-habits	0.1594	-0.0308	0.0000
student-lifestyle	0.3321	0.3554	0.3581
student-weekend	0.2101	0.1055	0.1284
student-workday	0.1630	-0.0159	0.0000
studentap	0.4425	0.1574	0.1621
swarm_aligned	0.9605	0.9200	0.9209
swarm_flocking	0.9639	0.9276	0.9277
swarm_grouped	0.9701	0.9394	0.9403
tae	0.4667	0.2000	0.2013
telco-churn	0.8677	0.7338	0.7353
texture	0.9776	0.9739	0.9740
theorem	0.8910	0.7819	0.7820
thoracic	0.5444	0.0824	0.0866
Thyroid_Diff	0.8364	0.6713	0.6727
tis	0.7977	0.5643	0.5927
titanic	0.7714	0.5247	0.5418
tourist	0.5250	0.6364	0.6848
trains	0.3333	0.0000	0.0000
transfusion	0.5247	0.0489	0.0494
tuandromd	0.9677	0.9352	0.9354
turkish	0.8778	0.8333	0.8354
tvnews	0.8381	0.6710	0.6762
ur3_cobotops_grip	0.6437	0.2617	0.2784
ur3_cobotops_stop	0.6843	0.3341	0.3579
urban	0.8282	0.7720	0.7776
ustilago10%	0.4972	-0.0007	0.0000
vehicle	0.6989	0.6479	0.6550
vote	0.9089	0.8143	0.8178
vowel	0.7262	0.6667	0.6752
wap-wc	0.4026	0.5756	0.5924
warpar10p	0.5859	0.6510	0.6694
warppie10p	0.9583	0.9470	0.9494
waveform	0.8521	0.7751	0.7780
weather-related	0.9786	0.9716	0.9718
weight-lift	0.9937	0.9926	0.9926
white-clover	0.6604	0.1818	0.3162
wifi-loc	0.9902	0.9867	0.9868
wilt	0.9284	0.8551	0.8568
wine	1.0000	1.0000	1.0000
winequality-red	0.3113	0.4161	0.4181
winequality-white	0.3995	0.4406	0.4470
winnipeg10%	0.9900	0.9837	0.9837
wisc.bc	0.9817	0.9627	0.9633
yale	0.5786	0.6000	0.6237
yeast	0.4962	0.4574	0.4657
yeastCYT-POX	0.9047	0.7897	0.8078
yeastEXC	0.4861	-0.0278	0.0000
yeastME1	0.7845	0.5613	0.5674
yeastME2	0.6024	0.1766	0.1938
zip	0.9013	0.8975	0.8977

Table 13: Detailed results for Crazy (ova)

Dataset	F1-macro	Kappa	MCC
abalone	0.1230	0.0821	0.0837
abalone19	0.4982	0.0000	0.0000
accelerometer	0.7466	0.4247	0.4749
ads	0.9548	0.9055	0.9096
adult	0.7906	0.5708	0.5807
advanced-iot	1.0000	1.0000	1.0000
AID_1431	0.4772	0.0000	0.0000
AID_1431_KlekotaRothFingerprinter	0.4772	0.0000	0.0000
AID_1431_MACCSFingerprinter	0.4772	0.0000	0.0000
AID_1878	0.5447	0.0437	0.0679
AID_602330	0.4880	-0.0093	0.0000
AID_652128	0.3118	0.0000	0.0000
AID1284red	0.7333	0.3010	0.4209
AID1608Moredred	0.4824	0.0000	0.0000
AID1608red	0.4824	-0.0169	0.0000
AID362red	0.4965	0.0000	0.0000
AID373AID439red	0.5000	0.0000	0.0000
AID373red	0.7367	0.2855	0.4081
AID456red	0.4990	-0.0015	0.0000
AID604	0.9850	0.9696	0.9700
AID604AID644_AllRed	0.4997	0.0000	0.0000
AID687AID721red	0.4998	0.0000	0.0000
AID687red	0.4992	0.0000	0.0000
AID688red	0.4977	0.0000	0.0000
AID721moredred	0.4375	0.0000	0.0000
AID721red	0.4375	0.0000	0.0000
AID746AID1284red	0.4997	0.0000	0.0000
AID746red	0.6833	0.2311	0.3134
aids	0.8492	0.6958	0.6984
air_pollution	0.0826	0.0000	0.0000
alcohol	0.7164	0.7302	0.7460
all-aml	0.8182	0.5714	0.6325
anneal	0.9872	0.9766	0.9769
antivirus	1.0000	1.0000	1.0000
anuran-f-b	1.0000	1.0000	1.0000
anxiety	0.1108	0.0036	0.0036
apple-quality	0.8216	0.6400	0.6432
aps-failure	0.8669	0.7307	0.7333
arabidopsis1%	0.4980	0.0000	0.0000
arcene	0.7292	0.4231	0.4583
arrhythmia	0.4195	0.4633	0.5226
auction	0.9889	0.9776	0.9778
audiology	0.6687	0.7805	0.7912
audit-risk	1.0000	1.0000	1.0000
autism-adolescent	1.0000	1.0000	1.0000
autism-adult	1.0000	1.0000	1.0000
autism-child	1.0000	1.0000	1.0000
autos	0.9064	0.8667	0.8758
avila	0.9977	0.9994	0.9994
balance	0.8543	0.8220	0.8251
bank	0.7847	0.5663	0.5690
bankruptcy	1.0000	1.0000	1.0000
bio	0.8584	0.6780	0.7112
biodeg	0.8780	0.7553	0.7560
biomed	1.0000	1.0000	1.0000
Continued on next page			

Dataset	F1-macro	Kappa	MCC
bitcoin10%	0.3128	0.2529	0.2665
body-perf	0.7365	0.6428	0.6477
brain-tumor	0.5178	0.0330	0.0355
breast-cancer	0.7126	0.3824	0.4196
breast-cancer-ma	0.5345	0.0678	0.0690
breast-tissue	0.7179	0.6733	0.6869
bridges	0.7895	0.8571	0.8697
bub12at310k-hg16-17	0.7037	0.3987	0.4054
cad	1.0000	1.0000	1.0000
cancer	1.0000	1.0000	1.0000
cancer-uae	0.3087	-0.0193	0.0000
car-insurance	0.8161	0.6295	0.6322
cardiotocography-nsp	0.8413	0.7632	0.7642
cardiovascular	0.7304	0.4574	0.4608
cargo2k	1.0000	1.0000	1.0000
cars	0.8428	0.7812	0.7882
ccds10%	0.6780	0.0665	0.1854
cdc_diabetes	0.4505	0.2914	0.3098
census	0.7494	0.4839	0.4859
cervical-B	0.8563	0.7088	0.7122
cervical-H	0.8278	0.5889	0.6460
cervical-S	0.8481	0.6446	0.6896
children-anemia	0.8424	0.8962	0.8980
chrom19	0.9477	0.8911	0.8951
chrom211%	0.4998	0.0000	0.0000
churn	0.7609	0.5184	0.5215
cjs	1.0000	1.0000	1.0000
ckd	1.0000	1.0000	1.0000
clave	0.6595	0.6319	0.6339
cll_sub_111	0.6369	0.3023	0.3061
cmc	0.5221	0.2834	0.2851
cnae-9	0.9729	0.9688	0.9688
codon_usage	0.6893	0.8308	0.8345
coil20	1.0000	1.0000	1.0000
college	0.9018	0.8036	0.8036
collins	1.0000	1.0000	1.0000
colon-tumor	0.8537	0.6667	0.7071
colposcopies-1	0.8165	0.5672	0.6292
colposcopies-2	0.7264	0.3176	0.4345
colposcopies-4	0.7810	0.4649	0.5504
colposcopies-5	0.4528	0.0000	0.0000
colposcopies-c	0.8054	0.5323	0.6022
column-2c	0.9342	0.8597	0.8683
column-3c	0.7543	0.6895	0.6930
connect-4	0.7635	0.7065	0.7199
coupon	0.7444	0.4888	0.4888
covtype	0.9393	0.9301	0.9277
covtypeCD	0.9820	0.9640	0.9641
covtypeT	0.9435	0.8869	0.8870
crabs	0.9141	0.8667	0.8785
creditcard_trans	0.9230	0.8331	0.8449
crowdsourced	0.8078	0.8681	0.8693
cryotherapy	0.8163	0.5714	0.6325
cultivars	0.6431	0.6774	0.6823
cybersecurity	0.1667	0.0016	0.0017
cyclopentane	0.6201	0.2373	0.2401
cylinder-bands	0.7761	0.5506	0.5522
datatrieve	0.4800	0.0000	0.0000
Continued on next page			

Dataset	F1-macro	Kappa	MCC
dating	0.1004	-0.0000	0.0000
dbworld	1.0000	1.0000	1.0000
default	0.7205	0.4374	0.4406
dementia	1.0000	1.0000	1.0000
deposit	0.7663	0.5310	0.5324
depressed	0.6649	0.0675	0.1869
dermatology	0.9429	0.9325	0.9325
desharnais	0.9106	0.7838	0.8068
df_final	0.7712	0.6145	0.6183
DIA	0.7938	0.5000	0.5774
diabetes-100k	0.8922	0.7594	0.7823
diagnosis	1.0000	1.0000	1.0000
diamonds	1.0000	1.0000	1.0000
diamonds_all	0.7314	0.6396	0.6474
dishonest	1.0000	1.0000	1.0000
dlbcl-nih	0.6010	0.1429	0.1917
dlbcl-stanford	1.0000	1.0000	1.0000
dna0.1%	0.4993	0.0000	0.0000
dota2	0.5723	0.1426	0.1445
drebin	0.9898	0.9796	0.9797
dropout	0.6888	0.6030	0.6111
ecoli	0.7465	0.8359	0.8380
ecoliCP-IM	1.0000	1.0000	1.0000
ecoliM	0.9175	0.8350	0.8350
ecoliMU	0.7024	0.3678	0.3975
ecoliOM	0.8514	0.6526	0.6960
ecommerce	0.2410	-0.0125	0.0000
euthyroid	0.9267	0.8527	0.8533
fakenews	0.4760	-0.0393	0.0000
fbis-wc	0.7245	0.7575	0.7628
finance	0.7816	0.5627	0.5632
financial-risk	0.4837	0.5819	0.6199
flags	0.6130	0.7468	0.7542
forest	0.9069	0.8937	0.8983
gas	0.9954	0.9948	0.9948
gastrointestinal	0.8485	0.7838	0.8094
gender	0.4797	0.1661	0.1709
german	0.6848	0.3415	0.3669
gestures	0.8773	0.8356	0.8364
gina	0.9023	0.8041	0.8046
gisette	0.9315	0.8629	0.8630
glass	0.7572	0.7981	0.8008
glass-g2	1.0000	1.0000	1.0000
glassBWFP	0.9507	0.8966	0.9014
glassBWNFP	0.9472	0.8889	0.8944
glassContainers	1.0000	1.0000	1.0000
glassNW	0.9340	0.8591	0.8677
glassTableware	1.0000	1.0000	1.0000
GlaucomaM	0.7978	0.5824	0.5955
gli_85	1.0000	1.0000	1.0000
glioma	0.8333	0.7059	0.7500
glioma-grade	0.8845	0.7610	0.7689
green	0.6098	0.2105	0.2182
gsalc	1.0000	1.0000	1.0000
haberman	0.6698	0.3226	0.3371
hapt	0.7982	0.9134	0.9139
har	0.9933	0.9923	0.9923
harth10%	0.5626	0.8146	0.8168
Continued on next page			

Dataset	F1-macro	Kappa	MCC
health-activity	0.2175	0.0000	0.0000
heart	0.8064	0.6110	0.6128
heart-c	0.9330	0.8661	0.8661
heart-failure	0.9861	0.9719	0.9722
heart-quantum	0.9423	0.8780	0.8847
hepatitis	0.7266	0.4444	0.4523
higher	0.2483	0.1304	0.1387
hinselmann	0.4444	0.0000	0.0000
hitters	0.9373	0.8745	0.8745
hiv1-proteasa	0.7596	0.4368	0.5042
hiva	0.5844	0.1005	0.1361
horse	0.6559	0.4253	0.4688
hotel-reservartions	0.8950	0.7898	0.7899
hr	0.4633	0.0000	0.0000
ht-sensor	1.0000	1.0000	1.0000
htru2	0.9337	0.8651	0.8673
hypothyroid	0.7320	0.9368	0.9368
immuno-therapy	0.8333	0.6087	0.6614
ionosphere	0.9337	0.8674	0.8674
iris	1.0000	1.0000	1.0000
irish	1.0000	1.0000	1.0000
isolet	0.8855	0.8785	0.8788
jm1	0.6779	0.3543	0.3556
javowels	0.9693	0.9681	0.9682
kc1-class-level-numericdefect	0.3733	0.3500	0.4677
kc1-class-level-top5percentDF	0.4643	-0.0714	0.0000
kc2	0.7312	0.4595	0.4622
kdc-4007	0.8655	0.8370	0.8385
kddcup991%	0.9696	0.9986	0.9986
kidney	0.1778	0.0000	0.0000
kidney-disease	1.0000	1.0000	1.0000
la2s-wc	0.8221	0.7964	0.8004
labor	1.0000	1.0000	1.0000
leaf	0.6534	0.6906	0.6996
led24	0.6782	0.6011	0.6064
lenses	1.0000	1.0000	1.0000
letter	0.9586	0.9573	0.9574
linkage1%	1.0000	1.0000	1.0000
loan	0.9641	0.9264	0.9283
lrs	0.6292	0.7928	0.8005
lung_discrete	0.7652	0.8367	0.8549
lymphography	0.5520	0.6000	0.6181
lymphoma2	0.6027	0.6842	0.7120
machine-failure	0.9251	0.8483	0.8501
magic04	0.8514	0.6965	0.7027
malware	1.0000	1.0000	1.0000
mammography	0.8745	0.7490	0.7490
marketing	0.7517	0.4493	0.4933
mba	0.4636	0.3564	0.3760
mental-disorders	0.9270	0.8889	0.8972
messidor	0.6693	0.3301	0.3386
meter-A	0.8000	0.5294	0.6000
meter-B	1.0000	1.0000	1.0000
meter-C	1.0000	1.0000	1.0000
meter-D	0.8784	0.8448	0.8561
mfeat-fac	0.9607	0.9556	0.9558
mfeat-fou	0.7669	0.7389	0.7395
mfeat-kar	0.9458	0.9389	0.9391
Continued on next page			

Dataset	F1-macro	Kappa	MCC
mfeat-mor	0.7181	0.6833	0.6841
mfeat-pix	0.9854	0.9833	0.9834
mfeat-zer	0.7729	0.7444	0.7448
mice-prot	1.0000	1.0000	1.0000
milk	1.0000	1.0000	1.0000
mines	0.6186	0.5222	0.5261
mobile	0.9565	0.9537	0.9539
monks-1	1.0000	1.0000	1.0000
monks-3	0.9824	0.9642	0.9648
mushroom	1.0000	1.0000	1.0000
music	0.5259	0.3772	0.3793
MUT_ci300400a_cdk_ECFP2	0.8185	0.6338	0.6370
MUT_ci300400a_cdk_ECFP4	0.8307	0.6555	0.6613
MUT_ci300400a_cdk_ECFP6	0.8015	0.6028	0.6030
MUT_ci300400a_cdk_ESTATE	0.7750	0.5488	0.5500
MUT_ci300400a_cdk_EXTENDED	0.8595	0.7184	0.7190
MUT_ci300400a_cdk_FCFP2	0.8379	0.6739	0.6757
MUT_ci300400a_cdk_FCFP4	0.7946	0.5869	0.5892
MUT_ci300400a_cdk_FCFP6	0.8069	0.6089	0.6137
MUT_ci300400a_cdk_MACCS	0.8394	0.6785	0.6787
MUT_ci300400a_cdk_PUBCHEM	0.8761	0.7521	0.7523
MUT_ci300400a_cdk_STANDARD	0.8413	0.6826	0.6826
MUT_ci300400a_rdkit_descriptors	0.8508	0.7004	0.7017
myocardial	0.3102	0.3867	0.4911
naticusdroid	0.9694	0.9388	0.9389
nci9	0.7895	0.8000	0.8281
ncRNA10%	0.7142	0.8364	0.8395
neo	0.7576	0.4144	0.5011
new-thyroid	1.0000	1.0000	1.0000
new-thyroidT	1.0000	1.0000	1.0000
newspop	0.6658	0.3302	0.3316
NHANES_age_prediction	1.0000	1.0000	1.0000
nomao	0.9580	0.9160	0.9160
nursery	0.9502	0.9457	0.9461
obesity	0.9474	0.9391	0.9396
obs	1.0000	1.0000	1.0000
oh0-wc	0.9537	0.9434	0.9440
oh10-wc	0.8047	0.7716	0.7759
oh15-wc	0.9087	0.8883	0.8911
oh5-wc	0.8473	0.8128	0.8159
olive	0.9385	0.9343	0.9362
optdigits	0.9649	0.9585	0.9586
orlraws10P	1.0000	1.0000	1.0000
ozone1hr	0.4909	0.0000	0.0000
p53-mutants10%	0.4992	0.0000	0.0000
parkinson	0.9915	0.9828	0.9830
particle	0.9056	0.8106	0.8111
pc1	0.6986	0.3909	0.3956
pcmac	0.3639	-0.0205	0.0000
pediatric-leukemia	0.5881	0.6670	0.6814
pendigits	0.9845	0.9828	0.9828
period-10f	0.5000	0.0000	0.0000
persistence	0.7843	0.5627	0.5685
personalities	0.9741	0.9723	0.9723
pet-adoption	0.8937	0.7701	0.7870
phishing	0.9700	0.9399	0.9400
PhiUSIL10%	0.9996	0.9991	0.9991
phy	0.7081	0.4105	0.4162
Continued on next page			

Dataset	F1-macro	Kappa	MCC
pima	0.7023	0.3899	0.4040
pirvision	1.0000	1.0000	1.0000
placement	0.7839	0.5674	0.5678
plrx	0.4194	0.0000	0.0000
polya	0.7397	0.4611	0.4783
popularity	0.5536	0.2739	0.2951
post-operative	0.4000	0.0000	0.0000
postures	0.9872	0.9843	0.9843
pred-tox_mutagen_ref-desc	0.6765	0.3529	0.3529
prestige	0.8889	0.8302	0.8462
primary-tumor	0.4076	0.3976	0.4084
processed	1.0000	1.0000	1.0000
profb	0.5795	0.1528	0.1582
promoters	0.9083	0.8000	0.8165
puc-rio	0.9885	0.9911	0.9911
pufs-1281%	0.5072	0.0143	0.0143
pufs-6410%	0.5040	0.0067	0.0079
pulsar	0.9485	0.8950	0.8969
raisin	0.8904	0.7778	0.7809
rejafada	1.0000	1.0000	1.0000
relathe	1.0000	1.0000	1.0000
rice	0.9861	0.9722	0.9723
rocket	0.7234	0.4368	0.4469
RT_IOT2022	0.9809	0.9963	0.9963
satimage	0.8768	0.8671	0.8681
scadi	0.6984	0.6316	0.6860
schiller	0.8333	0.6087	0.6614
sclerosis	1.0000	1.0000	1.0000
secom	0.4834	0.0000	0.0000
secondary_mushroom	1.0000	1.0000	1.0000
seeds	0.9553	0.9286	0.9317
segment	0.9698	0.9595	0.9598
segmentation	0.8478	0.6937	0.6956
segmentO	1.0000	1.0000	1.0000
seismic	0.5751	0.0819	0.1169
sens-2-gram	0.6772	0.0998	0.2292
sens-3-gram	0.6687	0.0675	0.1869
sens-4-gram	0.5838	0.0286	0.0793
sensorless	0.9983	0.9981	0.9981
shoppers	0.8094	0.6158	0.6185
sick	0.8596	0.7107	0.7183
sirtuin6	1.0000	1.0000	1.0000
smarket	0.9921	0.9840	0.9841
smk_can_187	0.6833	0.3667	0.3667
smoking	0.8311	0.6458	0.6622
soil_pollution	0.1885	-0.0147	0.0000
solar-flare	0.7403	0.7314	0.7349
sonar	0.6741	0.3000	0.3464
soybean	1.0000	1.0000	1.0000
spam-detection	0.8671	0.7340	0.7341
spambase	0.9522	0.9043	0.9043
spect	0.6250	0.2500	0.2500
spectf	0.8956	0.7692	0.7906
spectrometer	0.4946	0.5498	0.5571
squash-unstored	1.0000	1.0000	1.0000
startup	1.0000	1.0000	1.0000
steel_industry	0.8569	0.8145	0.8146
stellar	0.9666	0.9480	0.9481
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Dataset	F1-macro	Kappa	MCC
stock	0.7953	0.5899	0.5905
stockb	1.0000	1.0000	1.0000
streaming	0.9333	0.8660	0.8666
stress	1.0000	1.0000	1.0000
student-depression	0.8124	0.6241	0.6248
student-habits	0.1638	-0.0194	0.0000
student-lifestyle	0.3501	0.3892	0.3920
student-weekend	0.2722	0.1144	0.1242
student-workday	0.2655	0.0777	0.1982
studentap	0.4301	0.1727	0.1743
swarm_aligned	1.0000	1.0000	1.0000
swarm_flocking	1.0000	1.0000	1.0000
swarm_grouped	1.0000	1.0000	1.0000
tae	0.5469	0.3000	0.3020
telco-churn	0.8743	0.7481	0.7486
texture	0.9814	0.9779	0.9780
theorem	0.9647	0.9291	0.9293
thoracic	0.4598	0.0000	0.0000
Thyroid_Diff	0.9365	0.8648	0.8728
tis	0.8473	0.6772	0.6935
titanic	0.7934	0.5163	0.5813
tourist	0.5250	0.6364	0.6848
trains	0.3333	0.0000	0.0000
transfusion	0.5682	0.1355	0.1363
tuandromd	0.9853	0.9706	0.9707
turkish	0.7979	0.7333	0.7358
tvnews	0.9416	0.8822	0.8832
ur3_cobotops_grip	0.7655	0.3921	0.4938
ur3_cobotops_stop	0.7957	0.5827	0.5897
urban	0.8502	0.8077	0.8107
ustilago10%	0.4973	0.0000	0.0000
vehicle	0.7138	0.6777	0.6800
vote	0.9307	0.8605	0.8615
vowel	0.7452	0.6778	0.6905
wap-wc	0.4925	0.6533	0.6650
warpar10p	0.7330	0.7400	0.7501
warppie10p	1.0000	1.0000	1.0000
waveform	0.8432	0.7601	0.7640
weather-related	0.9750	0.9695	0.9698
weight-lift	0.9978	0.9971	0.9971
white-clover	0.6604	0.1818	0.3162
wifi-loc	0.9902	0.9867	0.9868
wilt	0.9249	0.8495	0.8497
wine	1.0000	1.0000	1.0000
winequality-red	0.3477	0.5299	0.5338
winequality-white	0.4852	0.5237	0.5289
winnipeg10%	0.9909	0.9852	0.9853
wisc.bc	0.9817	0.9627	0.9633
yale	0.7652	0.7983	0.8051
yeast	0.4474	0.4497	0.4566
yeastCYT-POX	0.9047	0.7897	0.8078
yeastEXC	0.7431	0.4861	0.4861
yeastME1	0.9318	0.8538	0.8630
yeastME2	0.7773	0.4325	0.5253
zip	0.9235	0.9204	0.9206

Table 14: Detailed results for Crazy (ovo)

Dataset	F1-macro	Kappa	MCC
abalone	0.1302	0.0638	0.0647
abalone19	0.4982	0.0000	0.0000
accelerometer	0.7291	0.4082	0.4442
ads	0.9548	0.9055	0.9096
adult	0.7932	0.5752	0.5858
advanced-iot	1.0000	1.0000	1.0000
AID_1431	0.4772	0.0000	0.0000
AID_1431_KlekotaRothFingerprinter	0.4772	0.0000	0.0000
AID_1431_MACCSFingerprinter	0.4772	0.0000	0.0000
AID_1878	0.4474	-0.0184	0.0000
AID_602330	0.4880	-0.0093	0.0000
AID_652128	0.3118	0.0000	0.0000
AID1284red	0.7333	0.3010	0.4209
AID1608Moredred	0.4824	0.0000	0.0000
AID1608red	0.4824	-0.0169	0.0000
AID362red	0.4965	0.0000	0.0000
AID373AID439red	0.5000	0.0000	0.0000
AID373red	0.6560	0.2496	0.2883
AID456red	0.4990	-0.0015	0.0000
AID604	0.9850	0.9696	0.9700
AID604AID644_AllRed	0.4997	0.0000	0.0000
AID687AID721red	0.4998	0.0000	0.0000
AID687red	0.4992	0.0000	0.0000
AID688red	0.4977	0.0000	0.0000
AID721moredred	0.4375	0.0000	0.0000
AID721red	0.4375	0.0000	0.0000
AID746AID1284red	0.4997	0.0000	0.0000
AID746red	0.6833	0.2311	0.3134
aids	0.8714	0.7413	0.7427
air_pollution	0.0826	0.0000	0.0000
alcohol	0.5943	0.7005	0.7236
all-aml	1.0000	1.0000	1.0000
anneal	1.0000	1.0000	1.0000
antivirus	1.0000	1.0000	1.0000
anuran-f-b	1.0000	1.0000	1.0000
anxiety	0.0795	-0.0314	0.0000
apple-quality	0.8163	0.6250	0.6326
aps-failure	0.8661	0.7286	0.7318
arabidopsis1%	0.4980	0.0000	0.0000
arcene	0.7292	0.4231	0.4583
arrhythmia	0.4110	0.3994	0.4832
auction	0.9889	0.9776	0.9778
audiology	0.6472	0.7864	0.7922
audit-risk	1.0000	1.0000	1.0000
autism-adolescent	1.0000	1.0000	1.0000
autism-adult	1.0000	1.0000	1.0000
autism-child	1.0000	1.0000	1.0000
autos	0.9064	0.8667	0.8758
avila	0.9974	0.9988	0.9988
balance	0.6949	0.6721	0.6905
bank	0.7850	0.5678	0.5697
bankruptcy	1.0000	1.0000	1.0000
bio	0.8560	0.6680	0.7056
biodeg	0.8675	0.7337	0.7350
biomed	1.0000	1.0000	1.0000
Continued on next page			

Dataset	F1-macro	Kappa	MCC
bitcoin10%	0.2445	0.0689	0.1427
body-perf	0.7192	0.6169	0.6235
brain-tumor	0.5080	0.0159	0.0159
breast-cancer	0.7126	0.3824	0.4196
breast-cancer-ma	0.6309	0.2414	0.2609
breast-tissue	0.7179	0.6733	0.6869
bridges	0.7895	0.8571	0.8697
bub12at310k-hg16-17	0.7033	0.3971	0.4044
cad	1.0000	1.0000	1.0000
cancer	1.0000	1.0000	1.0000
cancer-uae	0.3046	-0.0308	0.0000
car-insurance	0.8152	0.6276	0.6304
cardiotocography-nsp	0.8789	0.8060	0.8067
cardiovascular	0.7308	0.4580	0.4615
cargo2k	1.0000	1.0000	1.0000
cars	0.8428	0.7812	0.7882
ccds10%	0.6780	0.0665	0.1854
cdc_diabetes	0.4508	0.3185	0.3324
census	0.7440	0.4849	0.4874
cervical-B	0.8563	0.7088	0.7122
cervical-H	0.8481	0.6446	0.6896
cervical-S	0.8481	0.6446	0.6896
children-anemia	0.9242	0.9091	0.9102
chrom19	0.9390	0.8710	0.8775
chrom211%	0.4998	0.0000	0.0000
churn	0.7625	0.5243	0.5249
cjs	1.0000	1.0000	1.0000
ckd	1.0000	1.0000	1.0000
clave	0.6856	0.6492	0.6496
cll_sub_111	0.8028	0.6000	0.6068
cmc	0.5514	0.3367	0.3370
cnae-9	0.9649	0.9583	0.9586
codon_usage	0.7053	0.8434	0.8458
coil20	1.0000	1.0000	1.0000
college	0.9172	0.8338	0.8343
collins	1.0000	1.0000	1.0000
colon-tumor	0.8537	0.6667	0.7071
colposcopies-1	0.7797	0.4663	0.5514
colposcopies-2	0.7264	0.3176	0.4345
colposcopies-4	0.7810	0.4649	0.5504
colposcopies-5	0.4528	0.0000	0.0000
colposcopies-c	0.8054	0.5323	0.6022
column-2c	0.9342	0.8597	0.8683
column-3c	0.7007	0.6353	0.6364
connect-4	0.7858	0.7371	0.7443
coupon	0.7502	0.4996	0.5003
covtype	0.9248	0.9253	0.9342
covtypeCD	0.9853	0.9705	0.9705
covtypeT	0.9433	0.8865	0.8866
crabs	0.9141	0.8667	0.8785
creditcard_trans	0.9110	0.8046	0.8204
crowdsourced	0.8157	0.8621	0.8634
cryotherapy	0.8163	0.5714	0.6325
cultivars	0.4921	0.5161	0.5219
cybersecurity	0.2027	0.0342	0.0347
cyclopentane	0.6201	0.2373	0.2401
cylinder-bands	0.7970	0.5903	0.5941
datatrieve	0.4800	0.0000	0.0000
Continued on next page			

Dataset	F1-macro	Kappa	MCC
dating	0.1013	-0.0016	0.0000
dbworld	1.0000	1.0000	1.0000
default	0.7212	0.4366	0.4416
dementia	1.0000	1.0000	1.0000
deposit	0.7683	0.5354	0.5364
depressed	0.6649	0.0675	0.1869
dermatology	0.9429	0.9325	0.9325
desharnais	0.9106	0.7838	0.8068
df_final	0.8786	0.8072	0.8123
DIA	0.7692	0.4286	0.5222
diabetes-100k	0.8908	0.7556	0.7793
diagnosis	1.0000	1.0000	1.0000
diamonds	1.0000	1.0000	1.0000
diamonds_all	0.7426	0.6547	0.6580
dishonest	1.0000	1.0000	1.0000
dlbcl-nih	0.4203	-0.1250	0.0000
dlbcl-stanford	0.8333	0.6154	0.6667
dna0.1%	0.4993	0.0000	0.0000
dota2	0.5739	0.1472	0.1478
drebin	0.9913	0.9825	0.9826
dropout	0.6723	0.5795	0.5858
ecoli	0.7465	0.8359	0.8380
ecoliCP-IM	1.0000	1.0000	1.0000
ecoliM	0.9175	0.8350	0.8350
ecoliMU	0.7024	0.3678	0.3975
ecoliOM	0.8514	0.6526	0.6960
ecommerce	0.1942	-0.0833	0.0000
euthyroid	0.9267	0.8527	0.8533
fakenews	0.4956	-0.0087	0.0000
fbis-wc	0.7426	0.7408	0.7436
finance	0.8221	0.6394	0.6441
financial-risk	0.4825	0.5705	0.6121
flags	0.6016	0.7476	0.7599
forest	0.9069	0.8937	0.8983
gas	0.9952	0.9948	0.9948
gastrointestinal	0.6179	0.6643	0.7206
gender	0.4986	0.1828	0.1937
german	0.6980	0.3705	0.3938
gestures	0.8704	0.8254	0.8266
gina	0.8973	0.7927	0.7946
gisette	0.9231	0.8457	0.8462
glass	0.7572	0.7981	0.8008
glass-g2	1.0000	1.0000	1.0000
glassBWFP	1.0000	1.0000	1.0000
glassBWNFP	0.9472	0.8889	0.8944
glassContainers	1.0000	1.0000	1.0000
glassNW	0.9340	0.8591	0.8677
glassTableware	1.0000	1.0000	1.0000
GlaucomaM	0.7978	0.5824	0.5955
gli_85	1.0000	1.0000	1.0000
glioma	0.8333	0.7059	0.7500
glioma-grade	0.8845	0.7610	0.7689
green	0.6098	0.2105	0.2182
gsalc	1.0000	1.0000	1.0000
haberman	0.5269	0.0426	0.0503
hapt	0.8044	0.9243	0.9245
har	0.9917	0.9903	0.9903
harth10%	0.6047	0.8118	0.8123
Continued on next page			

Dataset	F1-macro	Kappa	MCC
health-activity	0.2175	0.0000	0.0000
heart	0.8466	0.6932	0.6932
heart-c	0.9330	0.8661	0.8661
heart-failure	0.9861	0.9719	0.9722
heart-quantum	0.9423	0.8780	0.8847
hepatitis	0.7266	0.4444	0.4523
higher	0.2484	0.2317	0.2715
hinselmann	0.4444	0.0000	0.0000
hitters	0.9373	0.8745	0.8745
hiv1-proteasa	0.7474	0.4036	0.4766
hiva	0.5663	0.0917	0.1133
horse	0.6559	0.4253	0.4688
hotel-reservartions	0.8936	0.7867	0.7871
hr	0.4633	0.0000	0.0000
ht-sensor	1.0000	1.0000	1.0000
htru2	0.9351	0.8659	0.8701
hypothyroid	0.7320	0.9368	0.9368
immuno-therapy	0.8333	0.6087	0.6614
ionosphere	0.9337	0.8674	0.8674
iris	0.9333	0.8993	0.9054
irish	1.0000	1.0000	1.0000
isolet	0.8852	0.8772	0.8775
jm1	0.6745	0.3463	0.3485
javowels	0.9598	0.9579	0.9580
kc1-class-level-numericdefect	0.1636	0.0000	0.0000
kc1-class-level-top5percentDF	0.4643	-0.0714	0.0000
kc2	0.6935	0.3863	0.3869
kdc-4007	0.5840	0.4056	0.4421
kddcup991%	0.8926	0.9983	0.9983
kidney	0.1778	0.0000	0.0000
kidney-disease	1.0000	1.0000	1.0000
la2s-wc	0.8010	0.7539	0.7629
labor	1.0000	1.0000	1.0000
leaf	0.6435	0.6906	0.7009
led24	0.6573	0.6023	0.6040
lenses	1.0000	1.0000	1.0000
letter	0.9503	0.9480	0.9480
linkage1%	1.0000	1.0000	1.0000
loan	0.9641	0.9264	0.9283
lrs	0.6315	0.7920	0.8002
lung_discrete	0.9164	0.8400	0.8573
lymphography	0.9107	0.7500	0.7779
lymphoma2	0.6027	0.6842	0.7120
machine-failure	0.9251	0.8483	0.8501
magic04	0.8512	0.6925	0.7021
malware	1.0000	1.0000	1.0000
mammography	0.8745	0.7490	0.7490
marketing	0.7517	0.4493	0.4933
mba	0.4624	0.3549	0.3729
mental-disorders	0.9270	0.8889	0.8972
messidor	0.6723	0.3331	0.3446
meter-A	0.8000	0.5294	0.6000
meter-B	1.0000	1.0000	1.0000
meter-C	1.0000	1.0000	1.0000
meter-D	0.8784	0.8448	0.8561
mfeat-fac	0.9558	0.9500	0.9502
mfeat-fou	0.7767	0.7500	0.7513
mfeat-kar	0.9333	0.9222	0.9227
Continued on next page			

Dataset	F1-macro	Kappa	MCC
mfeat-mor	0.6987	0.6944	0.7026
mfeat-pix	0.9703	0.9667	0.9667
mfeat-zer	0.7770	0.7500	0.7503
mice-prot	1.0000	1.0000	1.0000
milk	1.0000	1.0000	1.0000
mines	0.6483	0.5584	0.5627
mobile	0.9395	0.9359	0.9361
monks-1	1.0000	1.0000	1.0000
monks-3	0.9824	0.9642	0.9648
mushroom	1.0000	1.0000	1.0000
music	0.5303	0.3920	0.3935
MUT_ci300400a_cdk_ECFP2	0.8203	0.6381	0.6407
MUT_ci300400a_cdk_ECFP4	0.8286	0.6510	0.6572
MUT_ci300400a_cdk_ECFP6	0.8110	0.6214	0.6220
MUT_ci300400a_cdk_ESTATE	0.7672	0.5327	0.5343
MUT_ci300400a_cdk_EXTENDED	0.8635	0.7261	0.7270
MUT_ci300400a_cdk_FCFP2	0.8357	0.6693	0.6713
MUT_ci300400a_cdk_FCFP4	0.7932	0.5843	0.5864
MUT_ci300400a_cdk_FCFP6	0.7979	0.5889	0.5958
MUT_ci300400a_cdk_MACCS	0.8410	0.6816	0.6821
MUT_ci300400a_cdk_PUBCHEM	0.8764	0.7525	0.7529
MUT_ci300400a_cdk_STANDARD	0.8416	0.6831	0.6832
MUT_ci300400a_rdkit_descriptors	0.8536	0.7057	0.7072
myocardial	0.3102	0.3867	0.4911
naticusdroid	0.9694	0.9388	0.9389
nci9	0.7895	0.8000	0.8281
ncRNA10%	0.7047	0.8290	0.8316
neo	0.7578	0.4160	0.5018
new-thyroid	1.0000	1.0000	1.0000
new-thyroidT	1.0000	1.0000	1.0000
newspop	0.6611	0.3173	0.3223
NHANES_age_prediction	1.0000	1.0000	1.0000
nomao	0.9572	0.9143	0.9143
nursery	0.9406	0.9415	0.9426
obesity	0.9512	0.9447	0.9449
obs	1.0000	1.0000	1.0000
oh0-wc	0.8258	0.7939	0.7989
oh10-wc	0.6717	0.6808	0.6895
oh15-wc	0.8098	0.7500	0.7558
oh5-wc	0.8519	0.7998	0.8047
olive	0.9385	0.9343	0.9362
optdigits	0.9557	0.9486	0.9487
orlraws10P	1.0000	1.0000	1.0000
ozone1hr	0.4909	0.0000	0.0000
p53-mutants10%	0.4992	0.0000	0.0000
parkinson	0.9915	0.9828	0.9830
particle	0.9066	0.8127	0.8132
pc1	0.6644	0.2997	0.3199
pcmac	0.5209	0.0041	0.0171
pediatric-leukemia	0.5607	0.6280	0.6472
pendigits	0.9898	0.9889	0.9889
period-10f	0.5950	0.1818	0.1890
persistence	0.7814	0.5584	0.5626
personalities	0.9540	0.9508	0.9508
pet-adoption	0.8937	0.7701	0.7870
phishing	0.9614	0.9228	0.9228
PhiUSIL10%	0.9996	0.9991	0.9991
phy	0.7137	0.4255	0.4274
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Dataset	F1-macro	Kappa	MCC
pima	0.7174	0.4225	0.4342
pirvision	0.9977	0.9959	0.9959
placement	0.7813	0.5625	0.5626
plx	0.4194	0.0000	0.0000
polya	0.7321	0.4507	0.4635
popularity	0.5626	0.2981	0.3099
post-operative	0.5950	0.1818	0.1890
postures	0.9840	0.9803	0.9803
pred-tox_mutagen_ref-desc	0.6913	0.3824	0.3825
prestige	0.8889	0.8302	0.8462
primary-tumor	0.3953	0.4545	0.4589
processed	1.0000	1.0000	1.0000
profb	0.6192	0.2378	0.2384
promoters	0.9083	0.8000	0.8165
puc-rio	0.9879	0.9912	0.9912
pufs-1281%	0.5032	0.0042	0.0061
pufs-6410%	0.4995	-0.0009	0.0000
pulsar	0.9433	0.8840	0.8866
raisin	0.8904	0.7778	0.7809
rejafada	1.0000	1.0000	1.0000
relathe	1.0000	1.0000	1.0000
rice	0.9861	0.9722	0.9723
rocket	0.7152	0.4188	0.4303
RT_IOT2022	0.9807	0.9961	0.9961
satimage	0.8770	0.8673	0.8680
scadi	0.6984	0.6316	0.6860
schiller	0.8333	0.6087	0.6614
sclerosis	1.0000	1.0000	1.0000
secom	0.4834	0.0000	0.0000
secondary_mushroom	1.0000	1.0000	1.0000
seeds	0.9553	0.9286	0.9317
segment	0.9650	0.9544	0.9545
segmentation	0.8559	0.7113	0.7117
segmentO	1.0000	1.0000	1.0000
seismic	0.4819	-0.0074	0.0000
sens-2-gram	0.6772	0.0998	0.2292
sens-3-gram	0.6687	0.0675	0.1869
sens-4-gram	0.6196	0.0615	0.1412
sensorless	0.9976	0.9974	0.9974
shoppers	0.8056	0.6090	0.6109
sick	0.8708	0.7291	0.7402
sirtuin6	1.0000	1.0000	1.0000
smarket	0.9921	0.9840	0.9841
smk_can_187	0.7389	0.4751	0.4778
smoking	0.8310	0.6443	0.6619
soil_pollution	0.1880	-0.0133	0.0000
solar-flare	0.7392	0.7253	0.7297
sonar	0.7185	0.4000	0.4364
soybean	1.0000	1.0000	1.0000
spam-detection	0.8671	0.7340	0.7341
spambase	0.9499	0.8998	0.8998
spect	0.6250	0.2500	0.2500
spectf	0.8956	0.7692	0.7906
spectrometer	0.4489	0.5721	0.5751
squash-unstored	1.0000	1.0000	1.0000
startup	1.0000	1.0000	1.0000
steel_industry	0.8522	0.8094	0.8095
stellar	0.9674	0.9492	0.9493
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Dataset	F1-macro	Kappa	MCC
stock	0.7804	0.5607	0.5608
stockb	1.0000	1.0000	1.0000
streaming	0.9312	0.8622	0.8624
stress	1.0000	1.0000	1.0000
student-depression	0.8158	0.6301	0.6316
student-habits	0.2745	0.0416	0.0485
student-lifestyle	0.3542	0.3796	0.3825
student-weekend	0.2187	0.0774	0.0826
student-workday	0.2655	0.0777	0.1982
studentap	0.5111	0.2909	0.2909
swarm_aligned	1.0000	1.0000	1.0000
swarm_flocking	1.0000	1.0000	1.0000
swarm_grouped	1.0000	1.0000	1.0000
tae	0.4722	0.2000	0.2013
telco-churn	0.8619	0.7236	0.7239
texture	0.9794	0.9759	0.9760
theorem	0.9613	0.9223	0.9226
thoracic	0.4598	0.0000	0.0000
Thyroid_Diff	0.9365	0.8648	0.8728
tis	0.8496	0.6900	0.6988
titanic	0.7934	0.5163	0.5813
tourist	0.5250	0.6364	0.6848
trains	0.3333	0.0000	0.0000
transfusion	0.5876	0.1750	0.1751
tuandromd	0.9853	0.9706	0.9707
turkish	0.7580	0.6667	0.6717
tvnews	0.9443	0.8880	0.8885
ur3_cobotops_grip	0.7495	0.3374	0.4505
ur3_cobotops_stop	0.7607	0.4979	0.5161
urban	0.8665	0.8252	0.8274
ustilago10%	0.4973	0.0000	0.0000
vehicle	0.7493	0.7238	0.7260
vote	0.9307	0.8605	0.8615
vowel	0.6965	0.6111	0.6247
wap-wc	0.5269	0.7229	0.7324
warpar10p	0.6055	0.6533	0.6668
warppie10p	1.0000	1.0000	1.0000
waveform	0.8385	0.7540	0.7576
weather-related	0.9803	0.9738	0.9741
weight-lift	0.9972	0.9965	0.9965
white-clover	0.3750	-0.2000	0.0000
wifi-loc	0.9850	0.9800	0.9800
wilt	0.9492	0.8965	0.8982
wine	1.0000	1.0000	1.0000
winequality-red	0.3335	0.4740	0.4783
winequality-white	0.4779	0.5036	0.5075
winnipeg10%	0.9915	0.9864	0.9864
wisc.bc	0.9817	0.9627	0.9633
yale	0.8320	0.8655	0.8729
yeast	0.4527	0.4597	0.4643
yeastCYT-POX	0.9047	0.7897	0.8078
yeastEXC	0.7431	0.4861	0.4861
yeastME1	0.9318	0.8538	0.8630
yeastME2	0.7773	0.4325	0.5253
zip	0.9192	0.9168	0.9169

Table 15: Detailed results for Crazy

Dataset	F1-macro	Kappa	MCC
abalone	0.1036	0.0549	0.0558
abalone19	0.4964	-0.0072	0.0000
accelerometer	0.6285	0.2034	0.2356
ads	0.9281	0.8543	0.8562
adult	0.7800	0.5297	0.5586
advanced-iot	1.0000	1.0000	1.0000
AID_1431	0.4750	-0.0148	0.0000
AID_1431_KlekotaRothFingerprinter	0.4728	-0.0276	0.0000
AID_1431_MACCSFingerprinter	0.4750	-0.0148	0.0000
AID_1878	0.5274	0.0458	0.0515
AID_602330	0.4880	-0.0093	0.0000
AID_652128	0.3080	-0.0221	0.0000
AID1284red	0.7677	0.5355	0.5355
AID1608Moredred	0.5329	0.0656	0.0658
AID1608red	0.5249	0.0457	0.0482
AID362red	0.4710	-0.0251	0.0000
AID373AID439red	0.4879	-0.0003	0.0000
AID373red	0.5281	0.0045	0.0167
AID456red	0.4965	-0.0047	0.0000
AID604	0.6210	0.0218	0.0908
AID604AID644_AllRed	0.4912	-0.0020	0.0000
AID687AID721red	0.5923	0.0092	0.0466
AID687red	0.4867	-0.0057	0.0000
AID688red	0.4911	-0.0137	0.0000
AID721moredred	1.0000	1.0000	1.0000
AID721red	0.8333	0.6087	0.6614
AID746AID1284red	0.4884	-0.0020	0.0000
AID746red	0.5160	0.0119	0.0201
aids	0.8401	0.6734	0.6798
air_pollution	0.0826	0.0000	0.0000
alcohol	0.6817	0.6747	0.6831
all-aml	0.8537	0.6667	0.7071
anneal	0.9742	0.9538	0.9549
antivirus	1.0000	1.0000	1.0000
anuran-f-b	1.0000	1.0000	1.0000
anxiety	0.0772	-0.0318	0.0000
apple-quality	0.8120	0.6100	0.6239
aps-failure	0.6479	0.2217	0.2687
arabidopsis1%	0.4980	0.0000	0.0000
arcene	0.6926	0.3396	0.3852
arrhythmia	0.2775	0.1456	0.2860
auction	0.9549	0.9056	0.9097
audiology	0.5135	0.6906	0.7006
audit-risk	0.9742	0.9470	0.9484
autism-adolescent	0.9141	0.8136	0.8281
autism-adult	1.0000	1.0000	1.0000
autism-child	0.9348	0.8612	0.8697
autos	0.9064	0.8667	0.8758
avila	0.9977	0.9994	0.9994
balance	0.5611	0.4626	0.4635
bank	0.7094	0.3875	0.4115
bankruptcy	0.9606	0.9180	0.9211
bio	0.8172	0.6255	0.6328
biodeg	0.8365	0.6706	0.6729
biomed	1.0000	1.0000	1.0000
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Dataset	F1-macro	Kappa	MCC
bitcoin10%	0.2786	0.3924	0.3939
body-perf	0.7014	0.5940	0.6019
brain-tumor	0.5036	0.0049	0.0068
breast-cancer	0.5944	0.1860	0.1886
breast-cancer-ma	0.7243	0.4407	0.4485
breast-tissue	0.7407	0.7800	0.8042
bridges	0.6061	0.7143	0.7470
bub12at310k-hg16-17	0.6932	0.3704	0.3823
cad	1.0000	1.0000	1.0000
cancer	0.9844	0.9684	0.9688
cancer-uae	0.3080	-0.0203	0.0000
car-insurance	0.8049	0.6065	0.6097
cardiotocography-nsp	0.8271	0.7186	0.7209
cardiovascular	0.7312	0.4579	0.4624
cargo2k	1.0000	1.0000	1.0000
cars	0.8236	0.7773	0.7813
ccds10%	0.5427	0.0481	0.0660
cdc_diabetes	0.4459	0.3137	0.3298
census	0.7243	0.4403	0.4468
cervical-B	0.7589	0.5147	0.5171
cervical-H	0.8269	0.6485	0.6530
cervical-S	0.8481	0.6446	0.6896
children-anemia	0.8377	0.8917	0.8930
chrom19	0.8693	0.7378	0.7385
chrom211%	0.4998	0.0000	0.0000
churn	0.7306	0.4607	0.4611
cjs	0.9874	0.9826	0.9827
ckd	1.0000	1.0000	1.0000
clave	0.6182	0.6273	0.6353
cll_sub_111	0.4762	0.1429	0.3182
cmc	0.5448	0.3194	0.3237
cnae-9	0.9644	0.9583	0.9586
codon_usage	0.6409	0.7788	0.7860
coil20	1.0000	1.0000	1.0000
college	0.9172	0.8338	0.8343
collins	0.7326	0.8673	0.8708
colon-tumor	0.8537	0.6667	0.7071
colposcopies-1	0.7635	0.4942	0.5249
colposcopies-2	0.6059	0.1808	0.2076
colposcopies-4	0.7150	0.3873	0.4243
colposcopies-5	0.4528	0.0000	0.0000
colposcopies-c	0.7397	0.4487	0.4754
column-2c	0.8362	0.6578	0.6722
column-3c	0.7109	0.5908	0.6198
connect-4	0.6588	0.5573	0.5603
coupon	0.6472	0.2939	0.2945
covtype	0.8968	0.9017	0.9019
covtypeCD	0.9657	0.9312	0.9313
covtypeT	0.8842	0.7593	0.7675
crabs	0.7979	0.7333	0.7358
creditcard_trans	0.6062	0.0885	0.1472
crowdsourced	0.7092	0.8199	0.8268
cryotherapy	0.8163	0.5714	0.6325
cultivars	0.4889	0.5484	0.5546
cybersecurity	0.1615	-0.0112	0.0000
cyclopentane	0.6326	0.2623	0.2652
cylinder-bands	0.6968	0.3806	0.3936
datatrieve	0.3810	-0.1404	0.0000
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Dataset	F1-macro	Kappa	MCC
dating	0.1117	0.0103	0.0109
dbworld	1.0000	1.0000	1.0000
default	0.7106	0.4143	0.4203
dementia	1.0000	1.0000	1.0000
deposit	0.6979	0.3375	0.3807
depressed	0.4542	0.0000	0.0000
dermatology	0.9429	0.9325	0.9325
desharnais	0.6073	0.2727	0.3254
df_final	0.7551	0.6049	0.6345
DIA	0.6659	0.2778	0.3207
diabetes-100k	0.8182	0.5604	0.6239
diagnosis	1.0000	1.0000	1.0000
diamonds	0.9139	0.8876	0.8940
diamonds_all	0.6951	0.5932	0.6041
dishonest	1.0000	1.0000	1.0000
dlbcl-nih	0.4286	-0.1351	0.0000
dlbcl-stanford	0.2857	0.0000	0.0000
dna0.1%	0.4989	-0.0019	0.0000
dota2	0.5642	0.1282	0.1285
drebin	0.9316	0.8594	0.8631
dropout	0.6630	0.5827	0.5951
ecoli	0.6954	0.7942	0.7982
ecoliCP-IM	1.0000	1.0000	1.0000
ecoliM	0.8253	0.6341	0.6500
ecoliMU	0.6810	0.3125	0.3516
ecoliOM	0.6296	0.2180	0.2469
ecommerce	0.2281	-0.0429	0.0000
euthyroid	0.8763	0.7497	0.7524
fakenews	0.4705	-0.0575	0.0000
fbis-wc	0.7146	0.7316	0.7405
finance	0.7228	0.4457	0.4457
financial-risk	0.4515	0.5396	0.5710
flags	0.4750	0.6815	0.6953
forest	0.8552	0.8408	0.8426
gas	0.9954	0.9948	0.9948
gastrointestinal	0.7980	0.6690	0.7104
gender	0.4844	0.1785	0.1842
german	0.6712	0.3017	0.3377
gestures	0.8651	0.8117	0.8179
gina	0.8668	0.7186	0.7336
gisette	0.9236	0.8429	0.8471
glass	0.7094	0.6580	0.6652
glass-g2	0.8091	0.6129	0.6181
glassBWFP	0.8467	0.6897	0.6934
glassBWNFP	0.7361	0.4375	0.4719
glassContainers	0.8986	0.7755	0.7958
glassNW	0.8662	0.6957	0.7303
glassTableware	0.7471	0.3529	0.4629
GlaucomaM	0.7978	0.5824	0.5955
gli_85	0.5749	0.1429	0.1491
glioma	0.8333	0.7059	0.7500
glioma-grade	0.8845	0.7610	0.7689
green	0.5238	0.0476	0.0476
gsalc	0.9167	0.8657	0.8788
haberman	0.4671	-0.0656	0.0000
hapt	0.7161	0.9025	0.9029
har	0.9864	0.9839	0.9839
harth10%	0.5481	0.8002	0.8024
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Dataset	F1-macro	Kappa	MCC
health-activity	0.2175	0.0000	0.0000
heart	0.8118	0.6218	0.6236
heart-c	0.9674	0.9327	0.9349
heart-failure	0.9532	0.9059	0.9065
heart-quantum	0.9083	0.8000	0.8165
hepatitis	0.8077	0.5455	0.6124
higher	0.2183	0.0494	0.0517
hinselmann	0.4118	-0.1538	0.0000
hitters	0.9373	0.8745	0.8745
hiv1-proteasa	0.7250	0.4044	0.4412
hiva	0.5392	0.0769	0.0777
horse	0.4383	0.0642	0.0927
hotel-reservartions	0.8648	0.7288	0.7295
hr	0.4612	-0.0135	0.0000
ht-sensor	0.9824	0.9733	0.9734
htru2	0.9258	0.8445	0.8513
hypothyroid	0.7000	0.8813	0.8844
immuno-therapy	0.6786	0.3571	0.3571
ionosphere	0.9038	0.8059	0.8076
iris	1.0000	1.0000	1.0000
irish	1.0000	1.0000	1.0000
isolet	0.8684	0.8585	0.8591
jm1	0.6229	0.2355	0.2435
jvowels	0.9438	0.9408	0.9410
kc1-class-level-numericdefect	0.1636	0.0000	0.0000
kc1-class-level-top5percentDF	0.4444	-0.0976	0.0000
kc2	0.7312	0.4595	0.4622
kdc-4007	0.2657	0.0326	0.1240
kddcup991%	0.8114	0.9976	0.9976
kidney	0.1778	0.0000	0.0000
kidney-disease	1.0000	1.0000	1.0000
la2s-wc	0.7278	0.6713	0.6864
labor	1.0000	1.0000	1.0000
leaf	0.6282	0.6284	0.6330
led24	0.6790	0.6000	0.6035
lenses	0.5714	0.5000	0.6124
letter	0.9409	0.9386	0.9387
linkage1%	0.9634	0.9266	0.9268
loan	0.9562	0.9114	0.9125
lrs	0.6029	0.7643	0.7737
lung_discrete	0.7652	0.8367	0.8549
lymphography	0.4934	0.4510	0.4560
lymphoma2	0.6027	0.6842	0.7120
machine-failure	0.9352	0.8695	0.8703
magic04	0.8390	0.6679	0.6777
malware	1.0000	1.0000	1.0000
mammography	0.8543	0.7080	0.7086
marketing	0.6807	0.3572	0.3606
mba	0.3793	0.1163	0.1315
mental-disorders	0.9270	0.8889	0.8972
messidor	0.5993	0.1804	0.1986
meter-A	0.7333	0.4667	0.4667
meter-B	0.7500	0.5263	0.6005
meter-C	1.0000	1.0000	1.0000
meter-D	0.9583	0.9234	0.9274
mfeat-fac	0.9360	0.9278	0.9282
mfeat-fou	0.7827	0.7611	0.7622
mfeat-kar	0.9717	0.9667	0.9670
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Dataset	F1-macro	Kappa	MCC
mfeat-mor	0.6702	0.6389	0.6395
mfeat-pix	0.9902	0.9889	0.9889
mfeat-zer	0.7757	0.7611	0.7626
mice-prot	0.9893	0.9894	0.9895
milk	1.0000	1.0000	1.0000
mines	0.5385	0.4469	0.4533
mobile	0.9534	0.9502	0.9504
monks-1	1.0000	1.0000	1.0000
monks-3	0.9642	0.9285	0.9285
mushroom	1.0000	1.0000	1.0000
music	0.5088	0.3654	0.3768
MUT_ci300400a_cdk_ECFP2	0.7450	0.4736	0.4901
MUT_ci300400a_cdk_ECFP4	0.7795	0.5402	0.5590
MUT_ci300400a_cdk_ECFP6	0.7283	0.4451	0.4566
MUT_ci300400a_cdk_ESTATE	0.7284	0.4495	0.4568
MUT_ci300400a_cdk_EXTENDED	0.7604	0.5121	0.5208
MUT_ci300400a_cdk_FCFP2	0.7873	0.5703	0.5745
MUT_ci300400a_cdk_FCFP4	0.7372	0.4590	0.4744
MUT_ci300400a_cdk_FCFP6	0.7528	0.4837	0.5056
MUT_ci300400a_cdk_MACCS	0.7850	0.5642	0.5700
MUT_ci300400a_cdk_PUBCHEM	0.7896	0.5712	0.5791
MUT_ci300400a_cdk_STANDARD	0.7372	0.4679	0.4743
MUT_ci300400a_rdkit_descriptors	0.7682	0.5268	0.5365
myocardial	0.2414	0.2917	0.4167
naticusdroid	0.9588	0.9175	0.9177
nci9	0.6061	0.6000	0.6708
ncRNA10%	0.6739	0.8163	0.8218
neo	0.7331	0.3556	0.4496
new-thyroid	0.9318	0.8871	0.8941
new-thyroidT	0.9211	0.8293	0.8416
newspop	0.6465	0.2637	0.2926
NHANES_age_prediction	0.9919	0.9837	0.9838
nomao	0.9294	0.8588	0.8588
nursery	0.9156	0.9296	0.9300
obesity	0.9474	0.9391	0.9397
obs	0.9555	0.9453	0.9466
oh0-wc	0.8221	0.7954	0.7978
oh10-wc	0.6941	0.6922	0.7019
oh15-wc	0.7631	0.7487	0.7615
oh5-wc	0.8351	0.7877	0.7936
olive	0.9174	0.9123	0.9157
optdigits	0.9662	0.9604	0.9605
orlraws10P	0.8743	0.8889	0.8989
ozone1hr	0.4889	-0.0131	0.0000
p53-mutants10%	0.4992	0.0000	0.0000
parkinson	0.9750	0.9487	0.9500
particle	0.9028	0.8045	0.8055
pc1	0.7121	0.3995	0.4188
pcmac	0.5347	0.0586	0.0679
pediatric-leukemia	0.5424	0.5965	0.6097
pendigits	0.9782	0.9757	0.9757
period-10f	0.7568	0.4000	0.5000
persistence	0.7944	0.5882	0.5888
personalities	0.9752	0.9735	0.9735
pet-adoption	0.8861	0.7610	0.7719
phishing	0.9357	0.8713	0.8713
PhiUSIL10%	0.9927	0.9852	0.9854
phy	0.6950	0.3864	0.3900
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Dataset	F1-macro	Kappa	MCC
pima	0.7044	0.4045	0.4086
pirvision	0.9095	0.8847	0.8857
placement	0.7791	0.5583	0.5583
plrx	0.5916	0.1509	0.1754
polya	0.7202	0.4388	0.4403
popularity	0.4812	0.2696	0.2863
post-operative	0.5000	0.0000	0.0000
postures	0.9863	0.9830	0.9830
pred-tox_mutagen_ref-desc	0.7254	0.4412	0.4508
prestige	0.8889	0.8302	0.8462
primary-tumor	0.3758	0.3883	0.4004
processed	0.9984	0.9968	0.9968
profb	0.6278	0.2556	0.2556
promoters	0.8077	0.5455	0.6124
puc-rio	0.9849	0.9887	0.9887
pufs-1281%	0.4952	-0.0007	0.0000
pufs-6410%	0.5029	0.0052	0.0058
pulsar	0.9382	0.8729	0.8762
raisin	0.8578	0.7111	0.7155
rejafada	0.9665	0.9307	0.9330
relathe	0.9929	0.9858	0.9859
rice	0.9856	0.9711	0.9711
rocket	0.6742	0.3259	0.3484
RT_IOT2022	0.9631	0.9898	0.9898
satimage	0.8683	0.8554	0.8565
scadi	0.6600	0.6316	0.6667
schiller	0.4375	0.0000	0.0000
sclerosis	1.0000	1.0000	1.0000
secom	0.4834	0.0000	0.0000
secondary_mushroom	0.9997	0.9993	0.9993
seeds	0.9152	0.8571	0.8660
segment	0.9605	0.9494	0.9494
segmentation	0.8418	0.6822	0.6836
segmentO	0.9472	0.8888	0.8943
seismic	0.5502	0.0961	0.0986
sens-2-gram	0.6856	0.1312	0.2650
sens-3-gram	0.6687	0.0675	0.1869
sens-4-gram	0.5694	0.0500	0.0917
sensorless	0.9988	0.9987	0.9987
shoppers	0.8062	0.6094	0.6120
sick	0.8318	0.6478	0.6613
sirtuin6	1.0000	1.0000	1.0000
smarket	0.9921	0.9840	0.9841
smk_can_187	0.6833	0.3667	0.3667
smoking	0.7614	0.4959	0.5227
soil_pollution	0.2102	0.0022	0.0024
solar-flare	0.7034	0.6944	0.7041
sonar	0.6573	0.3000	0.3145
soybean	0.9706	0.9355	0.9378
spam-detection	0.8671	0.7340	0.7341
spambase	0.9387	0.8774	0.8774
spect	0.7109	0.4186	0.4215
spectf	0.7046	0.4043	0.4088
spectrometer	0.4923	0.5802	0.5848
squash-unstored	1.0000	1.0000	1.0000
startup	1.0000	1.0000	1.0000
steel_industry	0.8442	0.7968	0.7970
stellar	0.9656	0.9465	0.9466
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Dataset	F1-macro	Kappa	MCC
stock	0.7976	0.5950	0.5951
stockb	1.0000	1.0000	1.0000
streaming	0.9252	0.8503	0.8503
stress	0.9698	0.9603	0.9609
student-depression	0.7902	0.5784	0.5803
student-habits	0.1673	-0.0069	0.0000
student-lifestyle	0.3350	0.3571	0.3596
student-weekend	0.2062	0.1256	0.1407
student-workday	0.1630	-0.0159	0.0000
studentap	0.4280	0.1727	0.1794
swarm_aligned	0.9718	0.9436	0.9436
swarm_flocking	0.9677	0.9351	0.9353
swarm_grouped	0.9784	0.9567	0.9569
tae	0.4502	0.2000	0.2056
telco-churn	0.8743	0.7481	0.7486
texture	0.9811	0.9779	0.9780
theorem	0.9034	0.8061	0.8068
thoracic	0.5713	0.1215	0.1352
Thyroid_Diff	0.8683	0.7295	0.7363
tis	0.8141	0.6059	0.6264
titanic	0.7449	0.4827	0.4894
tourist	0.5250	0.6364	0.6848
trains	0.3333	0.0000	0.0000
transfusion	0.5158	0.0316	0.0316
tuandromd	0.9688	0.9363	0.9375
turkish	0.8080	0.7333	0.7408
tvnews	0.8277	0.6423	0.6553
ur3_cobotops_grip	0.6580	0.2989	0.3104
ur3_cobotops_stop	0.6940	0.3643	0.3810
urban	0.8436	0.8072	0.8104
ustilago10%	0.4972	-0.0007	0.0000
vehicle	0.7129	0.6772	0.6799
vote	0.9089	0.8143	0.8178
vowel	0.7650	0.7222	0.7284
wap-wc	0.3425	0.4621	0.5047
warpar10p	0.5859	0.6510	0.6694
warppie10p	1.0000	1.0000	1.0000
waveform	0.8569	0.7841	0.7853
weather-related	0.9686	0.9564	0.9565
weight-lift	0.9940	0.9929	0.9929
white-clover	0.6604	0.1818	0.3162
wifi-loc	0.9902	0.9867	0.9868
wilt	0.9174	0.8267	0.8343
wine	1.0000	1.0000	1.0000
winequality-red	0.3088	0.4060	0.4080
winequality-white	0.4063	0.4500	0.4585
winnipeg10%	0.9841	0.9837	0.9837
wisc.bc	0.9817	0.9627	0.9633
yale	0.5822	0.6000	0.6265
yeast	0.4975	0.4558	0.4642
yeastCYT-POX	0.9047	0.7897	0.8078
yeastEXC	0.6001	0.1981	0.1995
yeastME1	0.6808	0.3410	0.3554
yeastME2	0.6564	0.3060	0.3107
zip	0.8986	0.8926	0.8930

Table 16: Detailed results for CRF

Dataset	F1-macro	Kappa	MCC
abalone	0.0757	0.0582	0.0665
abalone19	0.4982	0.0000	0.0000
accelerometer	0.6668	0.1262	0.2406
ads	0.4589	0.0000	0.0000
adult	0.7753	0.4599	0.5153
advanced-iot	0.0481	0.0000	0.0000
AID_1431	0.4772	0.0000	0.0000
AID_1431_KlekotaRothFingerprinter	0.4765	0.0000	0.0000
AID_1431_MACCSFingerprinter	0.4772	0.0000	0.0000
AID_1878	0.4503	0.0000	0.0000
AID_602330	0.4880	-0.0093	0.0000
AID_652128	0.3118	0.0000	0.0000
AID1284red	0.4627	0.0000	0.0000
AID1608Morered	0.0631	0.0000	0.0000
AID1608red	0.4850	0.0000	0.0000
AID362red	0.1278	-0.0012	0.0000
AID373AID439red	0.0002	0.0000	0.0000
AID373red	0.0010	0.0000	0.0000
AID456red	0.2970	0.0040	0.0452
AID604	0.0035	0.0000	0.0000
AID604AID644_AllRed	0.5062	0.0000	0.0000
AID687AID721red	0.6043	0.0013	0.0253
AID687red	0.5550	0.0042	0.0320
AID688red	0.5212	0.0026	0.0143
AID721morered	0.4375	0.0000	0.0000
AID721red	0.4375	0.0000	0.0000
AID746AID1284red	0.0010	0.0000	0.0000
AID746red	0.0061	0.0000	0.0000
aids	0.4305	0.0000	0.0000
air_pollution	0.0826	0.0000	0.0000
alcohol	0.1640	0.0000	0.0000
all-aml	0.4000	0.0000	0.0000
anneal	0.1658	0.0000	0.0000
antivirus	0.8398	0.6838	0.7208
anuran-f-b	0.4453	-0.0161	0.0000
anxiety	0.0581	-0.0377	0.0000
apple-quality	0.8900	0.7800	0.7804
aps-failure	0.4928	0.0000	0.0000
arabidopsis1%	0.0079	0.0000	0.0000
arcene	0.7000	0.4231	0.4583
arrhythmia	0.0714	0.0000	0.0000
auction	0.4660	0.0000	0.0000
audiology	0.0390	0.0000	0.0000
audit-risk	0.9591	0.9184	0.9214
autism-adolescent	0.3889	0.0000	0.0000
autism-adult	0.4215	0.0000	0.0000
autism-child	0.7803	0.5797	0.6389
autos	0.3676	0.2958	0.3820
avila	0.5086	0.4163	0.4275
balance	0.6222	0.8184	0.8261
bank	0.7135	0.3251	0.3817
bankruptcy	1.0000	1.0000	1.0000
bio	0.4981	0.0000	0.0000
biodeg	0.6903	0.4129	0.4758
biomed	1.0000	1.0000	1.0000
Continued on next page			

Dataset	F1-macro	Kappa	MCC
bitcoin10%	0.2003	0.0042	0.0426
body-perf	0.6629	0.5466	0.5494
brain-tumor	0.5095	0.0088	0.0089
breast-cancer	0.4167	0.0000	0.0000
breast-cancer-ma	0.3479	0.0000	0.0000
breast-tissue	0.6889	0.6733	0.6869
bridges	0.2857	0.2593	0.3944
bub12at310k-hg16-17	0.6823	0.2768	0.3590
cad	0.9148	0.8305	0.8427
cancer	1.0000	1.0000	1.0000
cancer-uae	0.3154	0.0118	0.0123
car-insurance	0.4914	-0.0275	0.0000
cardiotocography-nsp	0.7463	0.6111	0.6469
cardiovascular	0.3308	0.0000	0.0000
cargo2k	0.6849	0.6088	0.6799
cars	0.7222	0.6131	0.6159
ccds10%	0.0367	0.0000	0.0000
cdc_diabetes	0.3016	0.0000	0.0000
census	0.4807	0.0000	0.0000
cervical-B	0.4819	0.0000	0.0000
cervical-H	0.4881	0.0000	0.0000
cervical-S	0.4756	0.0000	0.0000
children-anemia	0.3890	0.1604	0.1633
chrom19	0.5080	0.0000	0.0000
chrom211%	0.4998	0.0000	0.0000
churn	0.5333	0.0977	0.1049
cjs	0.0780	0.0111	0.0456
ckd	0.8119	0.6341	0.6814
clave	0.5667	0.6646	0.6898
cll_sub_111	0.0956	0.0000	0.0000
cmc	0.3251	0.0048	0.0048
cnae-9	0.0220	0.0000	0.0000
codon_usage	0.4408	0.4571	0.4635
coil20	0.0046	0.0000	0.0000
college	0.9169	0.8338	0.8343
collins	0.0184	0.0000	0.0000
colon-tumor	0.7778	0.5714	0.6325
colposcopies-1	0.6530	0.3596	0.4682
colposcopies-2	0.5538	0.2162	0.3482
colposcopies-4	0.6375	0.3256	0.4410
colposcopies-5	0.4528	0.0000	0.0000
colposcopies-c	0.7583	0.5323	0.6022
column-2c	0.8434	0.6884	0.6970
column-3c	0.7048	0.6297	0.6332
connect-4	0.0068	0.0000	0.0000
coupon	0.6751	0.3535	0.3543
covtype	0.0753	0.0000	0.0000
covtypeCD	0.1474	-0.0892	0.0000
covtypeT	0.7266	0.3302	0.4312
crabs	0.8453	0.8000	0.8137
creditcard_trans	0.4990	0.0000	0.0000
crowdsourced	0.7534	0.7700	0.7653
cryotherapy	1.0000	1.0000	1.0000
cultivars	0.4948	0.5484	0.5529
cybersecurity	0.0957	-0.0037	0.0000
cyclopentane	0.5714	0.1538	0.1581
cylinder-bands	0.3647	0.0000	0.0000
datatrieve	0.4800	0.0000	0.0000
Continued on next page			

Dataset	F1-macro	Kappa	MCC
dating	0.0181	0.0000	0.0000
dbworld	0.3636	0.0000	0.0000
default	0.6749	0.3063	0.3433
dementia	1.0000	1.0000	1.0000
deposit	0.6870	0.3185	0.3754
depressed	0.4927	0.0113	0.0121
dermatology	0.9704	0.9662	0.9671
desharnais	0.3333	0.1111	0.1213
df_final	0.1818	0.0000	0.0000
DIA	0.4286	0.0000	0.0000
diabetes-100k	0.4782	0.0000	0.0000
diagnosis	1.0000	1.0000	1.0000
diamonds	0.8981	0.9068	0.9104
diamonds_all	0.4876	0.4265	0.4382
dishonest	0.9227	0.8462	0.8563
dlbcl-nih	0.3514	-0.0820	0.0000
dlbcl-stanford	0.8000	0.6154	0.6667
dna0.1%	0.5938	0.0138	0.0678
dota2	0.3259	0.0000	0.0000
drebin	0.6977	0.4203	0.4808
dropout	0.4918	0.4159	0.4918
ecoli	0.3904	0.6107	0.6293
ecoliCP-IM	1.0000	1.0000	1.0000
ecoliM	0.4310	0.0000	0.0000
ecoliMU	0.4762	0.0000	0.0000
ecoliOM	0.8254	0.6526	0.6960
ecommerce	0.2755	0.0377	0.0395
euthyroid	0.4742	0.0000	0.0000
fakenews	0.4237	0.0174	0.0273
fbis-wc	0.0042	0.0000	0.0000
finance	0.7121	0.4324	0.4458
financial-risk	0.3462	0.4261	0.4674
flags	0.0659	0.0000	0.0000
forest	0.9087	0.8937	0.8974
gas	0.0973	-0.0854	0.0000
gastrointestinal	0.7834	0.7881	0.8059
gender	0.2341	-0.0360	0.0000
german	0.3939	0.0000	0.0000
gestures	0.8364	0.7827	0.7937
gina	0.8045	0.6172	0.6449
gisette	0.9042	0.8141	0.8347
glass	0.7355	0.7934	0.8025
glass-g2	0.8545	0.7143	0.7454
glassBWFP	0.7667	0.5532	0.6183
glassBWNFP	0.8152	0.6400	0.6860
glassContainers	0.4762	0.0000	0.0000
glassNW	0.9293	0.8591	0.8677
glassTableware	0.4884	0.0000	0.0000
GlaucomaM	0.7889	0.5824	0.5955
gli_85	0.2011	0.0000	0.0000
glioma	0.7778	0.7059	0.7500
glioma-grade	0.8620	0.7250	0.7307
green	0.6000	0.2105	0.2182
gsalc	1.0000	1.0000	1.0000
haberman	0.4118	-0.0630	0.0000
hapt	0.0012	0.0000	0.0000
har	0.2207	0.0139	0.0142
harth10%	0.5525	0.6516	0.6705
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Dataset	F1-macro	Kappa	MCC
health-activity	0.2175	0.0000	0.0000
heart	0.7970	0.5994	0.6175
heart-c	0.8611	0.7273	0.7559
heart-failure	0.6505	0.2937	0.2928
heart-quantum	0.9369	0.8740	0.8747
hepatitis	0.7115	0.4444	0.5345
higher	0.1333	0.1083	0.1866
hinselmann	0.4444	0.0000	0.0000
hitters	0.3469	0.0000	0.0000
hiv1-proteasa	0.4410	0.0080	0.0110
hiva	0.0345	0.0000	0.0000
horse	0.2303	0.0000	0.0000
hotel-reservartions	0.3951	0.0000	0.0000
hr	0.4633	0.0000	0.0000
ht-sensor	0.1653	0.0000	0.0000
htru2	0.0862	-0.1060	0.0000
hypothyroid	0.2382	0.0000	0.0000
immuno-therapy	0.4375	0.0000	0.0000
ionosphere	0.9337	0.8674	0.8674
iris	1.0000	1.0000	1.0000
irish	1.0000	1.0000	1.0000
isolet	0.0028	0.0000	0.0000
jm1	0.4088	-0.0349	0.0000
jvowels	0.6896	0.6381	0.6599
kc1-class-level-numericdefect	0.1636	0.0000	0.0000
kc1-class-level-top5percentDF	0.4828	0.0000	0.0000
kc2	0.6836	0.3777	0.4025
kdc-4007	0.0377	0.0000	0.0000
kddcup991%	0.6050	0.6169	0.6616
kidney	0.1776	0.0000	0.0000
kidney-disease	0.9730	0.9459	0.9473
la2s-wc	0.0316	0.0000	0.0000
labor	0.7778	0.5714	0.6325
leaf	0.6112	0.6903	0.6993
led24	0.5952	0.5415	0.5479
lenses	0.1667	0.0000	0.0000
letter	0.9065	0.8786	0.9002
linkage1%	0.9896	1.0000	1.0000
loan	0.5731	0.2431	0.3720
lrs	0.6097	0.7632	0.7724
lung_discrete	0.7600	0.8367	0.8549
lymphography	0.4815	0.4167	0.4344
lymphoma2	0.4545	0.4706	0.5657
machine-failure	0.9018	0.8035	0.8037
magic04	0.5439	0.0764	0.0751
malware	0.7688	0.5488	0.6149
mammography	0.8327	0.6654	0.6654
marketing	0.4602	0.0000	0.0000
mba	0.2177	-0.0362	0.0000
mental-disorders	0.7321	0.6667	0.6860
messidor	0.6243	0.2513	0.2532
meter-A	0.8730	0.7500	0.7746
meter-B	0.1970	-0.1690	0.0000
meter-C	0.9545	0.9234	0.9274
meter-D	0.8939	0.9221	0.9262
mfeat-fac	0.9594	0.9556	0.9559
mfeat-fou	0.7831	0.7611	0.7622
mfeat-kar	0.9702	0.9667	0.9669
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Dataset	F1-macro	Kappa	MCC
mfeat-mor	0.6796	0.6500	0.6509
mfeat-pix	0.9800	0.9778	0.9779
mfeat-zer	0.7700	0.7500	0.7506
mice-prot	1.0000	1.0000	1.0000
milk	0.7801	0.7180	0.7410
mines	0.4548	0.3717	0.3730
mobile	0.8485	0.8440	0.8293
monks-1	0.6970	0.4141	0.4450
monks-3	0.9100	0.8205	0.8253
mushroom	1.0000	1.0000	1.0000
music	0.4604	0.3368	0.3439
MUT_ci300400a_cdk_ECFP2	0.2906	0.0000	0.0000
MUT_ci300400a_cdk_ECFP4	0.2932	0.0000	0.0000
MUT_ci300400a_cdk_ECFP6	0.2909	0.0000	0.0000
MUT_ci300400a_cdk_ESTATE	0.6807	0.3781	0.3784
MUT_ci300400a_cdk_EXTENDED	0.2971	0.0000	0.0000
MUT_ci300400a_cdk_FCFP2	0.6871	0.3941	0.4169
MUT_ci300400a_cdk_FCFP4	0.2963	0.0000	0.0000
MUT_ci300400a_cdk_FCFP6	0.2923	0.0000	0.0000
MUT_ci300400a_cdk_MACCS	0.6317	0.2909	0.3190
MUT_ci300400a_cdk_PUBCHEM	0.2898	0.0000	0.0000
MUT_ci300400a_cdk_STANDARD	0.2921	0.0000	0.0000
MUT_ci300400a_rdkit_descriptors	0.4332	0.0413	0.0623
myocardial	0.1142	0.0000	0.0000
naticusdroid	0.9198	0.8452	0.8448
nci9	0.7778	0.8000	0.8281
ncRNA10%	0.0458	0.0000	0.0000
neo	0.4750	0.0000	0.0000
new-thyroid	1.0000	1.0000	1.0000
new-thyroidT	1.0000	1.0000	1.0000
newspop	0.6552	0.2955	0.2919
NHANES_age_prediction	0.4851	0.0459	0.1532
nomao	0.8995	0.7867	0.7990
nursery	0.9311	0.9458	0.9508
obesity	0.3414	0.3078	0.3385
obs	0.9581	0.9163	0.9208
oh0-wc	0.0113	0.0000	0.0000
oh10-wc	0.0205	0.0000	0.0000
oh15-wc	0.0123	0.0000	0.0000
oh5-wc	0.0141	0.0000	0.0000
olive	0.8936	0.9118	0.9156
optdigits	0.9701	0.9510	0.9592
orlraws10P	0.0184	0.0000	0.0000
ozone1hr	0.4909	0.0000	0.0000
p53-mutants10%	0.4992	0.0000	0.0000
parkinson	0.9226	0.8453	0.8454
particle	0.8717	0.7210	0.7505
pc1	0.4813	0.0000	0.0000
pcmac	0.2960	0.0000	0.0000
pediatric-leukemia	0.1612	0.2308	0.2758
pendigits	0.7551	0.7362	0.7513
period-10f	0.6786	0.4000	0.5000
persistence	0.4250	0.0479	0.1567
personalities	0.0072	0.0000	0.0000
pet-adoption	0.4632	0.0796	0.2036
phishing	0.9020	0.8051	0.8155
PhiUSIL10%	0.3679	0.0000	0.0000
phy	0.6905	0.3705	0.3649
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Dataset	F1-macro	Kappa	MCC
pima	0.6052	0.2621	0.3147
pirvision	0.0861	-0.1861	0.0000
placement	0.4790	-0.0421	0.0000
plrx	0.4194	0.0000	0.0000
polya	0.4968	0.0038	0.0038
popularity	0.4883	0.1928	0.2215
post-operative	0.4000	0.0000	0.0000
postures	0.9371	0.9139	0.8997
pred-tox_mutagen_ref-desc	0.7205	0.4412	0.4414
prestige	0.7296	0.6471	0.6605
primary-tumor	0.2212	0.2393	0.3523
processed	0.4058	0.0000	0.0000
profb	0.4018	0.0000	0.0000
promoters	0.8990	0.8000	0.8165
puc-rio	0.9627	0.9725	0.9516
pufs-1281%	0.3407	0.0000	0.0000
pufs-6410%	0.3285	0.0000	0.0000
pulsar	0.1130	-0.0934	0.0000
raisin	0.8887	0.7778	0.7809
rejafada	0.4910	0.0000	0.0000
relathe	0.3493	0.0000	0.0000
rice	0.0280	-0.9247	0.0000
rocket	0.4001	-0.0743	0.0000
RT_IOT2022	0.0055	0.0000	0.0000
satimage	0.8374	0.8584	0.8548
scadi	0.7333	0.8056	0.8289
schiller	0.4375	0.0000	0.0000
sclerosis	1.0000	1.0000	1.0000
secom	0.4840	0.0000	0.0000
secondary_mushroom	0.3623	0.0000	0.0000
seeds	0.9521	0.9286	0.9317
segment	0.9520	0.9393	0.9394
segmentation	0.8170	0.6367	0.6475
segmentO	1.0000	1.0000	1.0000
seismic	0.4830	0.0000	0.0000
sens-2-gram	0.4851	0.0342	0.1320
sens-3-gram	0.4648	0.0000	0.0000
sens-4-gram	0.4648	0.0000	0.0000
sensorless	0.9602	0.9609	0.9768
shoppers	0.4132	-0.0366	0.0000
sick	0.4829	0.0000	0.0000
sirtuin6	1.0000	1.0000	1.0000
smarket	0.9358	0.8717	0.8735
smk_can_187	0.5682	0.1461	0.1495
smoking	0.3880	0.0000	0.0000
soil_pollution	0.1044	-0.0290	0.0000
solar-flare	0.4902	0.5266	0.5262
sonar	0.6703	0.4000	0.5000
soybean	0.3919	0.5313	0.5655
spam-detection	0.0742	-0.1382	0.0000
spambase	0.3501	-0.2340	0.0000
spect	0.4375	0.0000	0.0000
spectf	0.8835	0.7692	0.7906
spectrometer	0.5245	0.5706	0.5782
squash-unstored	0.7619	0.5455	0.6124
startup	0.3922	0.0000	0.0000
steel_industry	0.7477	0.6330	0.6524
stellar	0.9143	0.8610	0.8859
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Dataset	F1-macro	Kappa	MCC
stock	0.5530	0.1613	0.2478
stockb	0.9823	0.9736	0.9737
streaming	0.3985	0.0442	0.1503
stress	1.0000	1.0000	1.0000
student-depression	0.8095	0.6446	0.6512
student-habits	0.1295	-0.0286	0.0000
student-lifestyle	0.2717	0.3441	0.3621
student-weekend	0.1111	0.0000	0.0000
student-workday	0.1651	0.0000	0.0000
studentap	0.1852	0.0000	0.0000
swarm_aligned	0.4130	0.0000	0.0000
swarm_flocking	0.3308	0.0000	0.0000
swarm_grouped	0.9828	0.9913	0.9823
tae	0.4594	0.2000	0.2100
telco-churn	0.7925	0.6079	0.6397
texture	0.4475	0.3944	0.4086
theorem	0.3417	-0.2937	0.0000
thoracic	0.4598	0.0000	0.0000
Thyroid_Diff	0.8106	0.6303	0.6784
tis	0.1971	0.0000	0.0000
titanic	0.7482	0.5163	0.5813
tourist	0.2933	0.3684	0.4308
trains	0.3360	0.0000	0.0000
transfusion	0.4544	-0.0417	0.0000
tuandromd	0.8080	0.6377	0.6801
turkish	0.7929	0.7333	0.7452
tvnews	0.2603	0.0000	0.0000
ur3_cobotops_grip	0.1288	-0.0161	0.0000
ur3_cobotops_stop	0.1369	-0.0204	0.0000
urban	0.8107	0.7724	0.7763
ustilago10%	0.0106	0.0000	0.0000
vehicle	0.6806	0.6454	0.6477
vote	0.9535	0.9071	0.9111
vowel	0.6311	0.6222	0.6308
wap-wc	0.0013	0.0000	0.0000
warpar10p	0.6800	0.7400	0.7553
warppie10p	1.0000	1.0000	1.0000
waveform	0.8244	0.7559	0.7514
weather-related	0.3601	0.2476	0.2521
weight-lift	0.8573	0.7836	0.7995
white-clover	0.3333	-0.2857	0.0000
wifi-loc	0.9950	0.9933	0.9934
wilt	0.8798	0.7601	0.7829
wine	1.0000	1.0000	1.0000
winequality-red	0.1622	0.0568	0.0637
winequality-white	0.1796	0.0743	0.0843
winnipeg10%	0.8903	0.9201	0.9496
wisc.bc	1.0000	1.0000	1.0000
yale	0.6444	0.6653	0.6767
yeast	0.2920	0.2284	0.2309
yeastCYT-POX	0.8281	0.6573	0.6997
yeastEXC	0.3783	0.0293	0.0891
yeastME1	0.3419	-0.0021	0.0000
yeastME2	0.3420	-0.0189	0.0000
zip	0.8795	0.8580	0.8696

Table 17: Detailed results for DL

Dataset	F1-macro	Kappa	MCC
abalone	0.1316	0.0778	0.0785
abalone19	0.4970	-0.0058	0.0000
accelerometer	0.6493	0.2964	0.2978
ads	0.9368	0.8736	0.8736
adult	0.7687	0.5191	0.5355
advanced-iot	0.0476	0.0000	0.0000
AID_1431	0.5117	0.0233	0.0234
AID_1431_KlekotaRothFingerprinter	0.4733	-0.0494	0.0000
AID_1431_MACCSFingerprinter	0.4684	-0.0488	0.0000
AID_1878	0.6002	0.1940	0.1989
AID_602330	0.4825	-0.0331	0.0000
AID_652128	0.3826	0.0348	0.0349
AID1284red	0.5355	0.0710	0.0710
AID1608Morered	0.5794	0.1518	0.1564
AID1608red	0.5354	0.0682	0.0698
AID362red	0.6183	0.2149	0.2282
AID373AID439red	0.5000	0.0000	0.0000
AID373red	0.4997	0.0000	0.0000
AID456red	0.4987	-0.0024	0.0000
AID604	0.6890	0.2044	0.3060
AID604AID644_AllRed	0.4997	-0.0003	0.0000
AID687AID721red	0.4998	-0.0004	0.0000
AID687red	0.4991	-0.0010	0.0000
AID688red	0.5258	0.0466	0.0492
AID721morered	0.1818	-0.4651	0.0000
AID721red	0.2500	-0.4211	0.0000
AID746AID1284red	0.4996	-0.0008	0.0000
AID746red	0.5522	0.0474	0.0725
aids	0.8496	0.6976	0.6991
air_pollution	0.1384	0.0082	0.0083
alcohol	0.7032	0.7227	0.7272
all-aml	1.0000	1.0000	1.0000
anneal	0.9732	0.9524	0.9527
antivirus	1.0000	1.0000	1.0000
anuran-f-b	1.0000	1.0000	1.0000
anxiety	0.0567	-0.0600	0.0000
apple-quality	0.9300	0.8600	0.8600
aps-failure	0.8049	0.6082	0.6096
arabidopsis1%	0.5859	0.1497	0.1623
arcene	0.7041	0.4000	0.4082
arrhythmia	0.2637	0.4326	0.4369
auction	0.9549	0.9088	0.9098
audiology	0.8594	0.8362	0.8496
audit-risk	0.9607	0.9184	0.9214
autism-adolescent	0.9141	0.8136	0.8281
autism-adult	0.9470	0.8934	0.8940
autism-child	0.9667	0.9311	0.9333
autos	0.7933	0.9340	0.9372
avila	0.9710	0.9651	0.9651
balance	0.9770	0.9422	0.9422
bank	0.7486	0.4972	0.4972
bankruptcy	1.0000	1.0000	1.0000
bio	0.9106	0.8196	0.8210
biodeg	0.8625	0.7226	0.7249
biomed	1.0000	1.0000	1.0000
Continued on next page			

Dataset	F1-macro	Kappa	MCC
bitcoin10%	0.0006	0.0000	0.0000
body-perf	0.7102	0.6139	0.6164
brain-tumor	0.4939	-0.0122	0.0000
breast-cancer	0.6210	0.2410	0.2418
breast-cancer-ma	0.5345	0.0678	0.0690
breast-tissue	0.8470	0.7800	0.7879
bridges	0.3636	0.4595	0.4857
bub12at310k-hg16-17	0.6303	0.2605	0.2605
cad	1.0000	1.0000	1.0000
cancer	0.9841	0.9677	0.9682
cancer-uae	0.3099	-0.0402	0.0000
car-insurance	0.7779	0.5551	0.5557
cardiotocography-nsp	0.7787	0.6852	0.6904
cardiovascular	0.7065	0.4033	0.4130
cargo2k	0.9974	0.9962	0.9962
cars	0.6868	0.5895	0.5943
ccds10%	0.5896	0.1746	0.1774
cdc_diabetes	0.4220	0.2217	0.2522
census	0.7209	0.3832	0.4261
cervical-B	0.7933	0.5841	0.5862
cervical-H	0.7378	0.4756	0.4756
cervical-S	0.8185	0.6350	0.6367
children-anemia	0.8367	0.8024	0.8025
chrom19	0.4998	0.0000	0.0000
chrom211%	0.4998	0.0000	0.0000
churn	0.6992	0.3985	0.3985
cjs	1.0000	1.0000	1.0000
ckd	1.0000	1.0000	1.0000
clave	0.7549	0.7710	0.7711
cll_sub_111	0.7090	0.4894	0.5058
cmc	0.4152	0.1341	0.1343
cnae-9	0.9548	0.9479	0.9481
codon_usage	0.7605	0.8995	0.8995
coil20	1.0000	1.0000	1.0000
college	0.9055	0.8092	0.8109
collins	0.5179	0.5139	0.5190
colon-tumor	0.6604	0.1818	0.3162
colposcopies-1	0.7271	0.4528	0.4542
colposcopies-2	0.5288	0.0543	0.0573
colposcopies-4	0.6284	0.2516	0.2561
colposcopies-5	0.5736	0.1386	0.1447
colposcopies-c	0.6234	0.2468	0.2468
column-2c	0.8931	0.7842	0.7863
column-3c	0.8358	0.7430	0.7517
connect-4	1.0000	1.0000	1.0000
coupon	0.7124	0.4244	0.4248
covtype	0.4090	0.1451	0.2367
covtypeCD	0.9809	0.9619	0.9619
covtypeT	0.9480	0.8961	0.8961
crabs	1.0000	1.0000	1.0000
creditcard_trans	0.9188	0.8349	0.8374
crowdsourced	0.8433	0.8731	0.8732
cryotherapy	0.7750	0.5500	0.5500
cultivars	0.4964	0.6462	0.6521
cybersecurity	0.1733	0.0078	0.0078
cyclopentane	0.5843	0.1681	0.1686
cylinder-bands	0.7276	0.4475	0.4553
datatrieve	0.4091	-0.1304	0.0000
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Dataset	F1-macro	Kappa	MCC
dating	0.1010	0.0009	0.0009
dbworld	1.0000	1.0000	1.0000
default	0.7147	0.4234	0.4286
dementia	1.0000	1.0000	1.0000
deposit	0.7191	0.4336	0.4373
depressed	0.5395	0.0759	0.0780
dermatology	0.9742	0.9663	0.9672
desharnais	0.4099	0.2000	0.2100
df_final	0.3926	0.2000	0.2354
DIA	0.6889	0.3778	0.3778
diabetes-100k	0.8722	0.7347	0.7435
diagnosis	1.0000	1.0000	1.0000
diamonds	1.0000	1.0000	1.0000
diamonds_all	0.7615	0.6799	0.6836
dishonest	1.0000	1.0000	1.0000
dlbcl-nih	0.3909	-0.2000	0.0000
dlbcl-stanford	1.0000	1.0000	1.0000
dna0.1%	0.4993	0.0000	0.0000
dota2	0.5882	0.1763	0.1764
drebin	0.9802	0.9602	0.9604
dropout	0.6497	0.5397	0.5401
ecoli	0.4753	0.6762	0.6778
ecoliCP-IM	1.0000	1.0000	1.0000
ecoliM	0.8825	0.7626	0.7650
ecoliMU	0.7292	0.4359	0.4543
ecoliOM	0.7339	0.4677	0.4677
ecommerce	0.2961	0.0659	0.0661
euthyroid	0.8612	0.7219	0.7223
fakenews	0.5126	0.0251	0.0252
fbis-wc	0.7114	0.7707	0.7721
finance	0.8436	0.6782	0.6872
financial-risk	0.5697	0.7972	0.7973
flags	0.2847	0.3631	0.3795
forest	0.8691	0.8411	0.8420
gas	0.9835	0.9799	0.9800
gastrointestinal	0.6898	0.5031	0.5063
gender	0.3986	0.0955	0.0994
german	0.6815	0.3593	0.3627
gestures	0.8835	0.8448	0.8450
gina	0.9279	0.8558	0.8558
gisette	0.9700	0.9400	0.9400
glass	0.7440	0.6698	0.6698
glass-g2	0.8667	0.7333	0.7333
glassBWFP	0.8467	0.6897	0.6934
glassBWNFP	0.7857	0.5714	0.5714
glassContainers	1.0000	1.0000	1.0000
glassNW	0.9340	0.8591	0.8677
glassTableware	0.8483	0.6452	0.6901
GlaucomaM	0.7889	0.5778	0.5778
gli_85	1.0000	1.0000	1.0000
glioma	0.6250	0.7059	0.7500
glioma-grade	0.8465	0.6880	0.6930
green	0.5238	0.0476	0.0476
gsalc	1.0000	1.0000	1.0000
haberman	0.6323	0.2593	0.2638
hapt	0.8601	0.9481	0.9484
har	0.9782	0.9742	0.9742
harth10%	0.1867	0.1094	0.2160
Continued on next page			

Dataset	F1-macro	Kappa	MCC
health-activity	0.2260	0.0236	0.0238
heart	0.8877	0.7731	0.7753
heart-c	0.7991	0.5982	0.5982
heart-failure	0.9676	0.9336	0.9351
heart-quantum	0.8557	0.7107	0.7114
hepatitis	0.6779	0.3333	0.3536
higher	0.1461	0.0994	0.1070
hinselmann	0.3750	-0.2500	0.0000
hitters	0.8745	0.7490	0.7490
hiv1-proteasa	0.8568	0.7133	0.7136
hiva	0.6199	0.2397	0.2397
horse	0.5175	0.2683	0.2789
hotel-reservartions	0.8649	0.7295	0.7298
hr	0.4719	-0.0538	0.0000
ht-sensor	0.4844	0.2719	0.3998
htru2	0.9337	0.8673	0.8674
hypothyroid	0.6681	0.8616	0.8621
immuno-therapy	0.6786	0.3571	0.3571
ionosphere	0.8990	0.7961	0.7980
iris	1.0000	1.0000	1.0000
irish	1.0000	1.0000	1.0000
isolet	0.8741	0.8625	0.8634
jm1	0.6124	0.2215	0.2241
jvowels	0.9779	0.9761	0.9762
kc1-class-level-numericdefect	0.2974	0.2262	0.2289
kc1-class-level-top5percentDF	0.4643	-0.0714	0.0000
kc2	0.6616	0.3185	0.3226
kdc-4007	0.8152	0.7760	0.7783
kddcup991%	0.4633	0.0603	0.2063
kidney	0.2113	0.0047	0.0049
kidney-disease	1.0000	1.0000	1.0000
la2s-wc	0.8193	0.8025	0.8057
labor	0.8537	0.6667	0.7071
leaf	0.7631	0.7532	0.7608
led24	0.6316	0.6067	0.6154
lenses	1.0000	1.0000	1.0000
letter	0.7893	0.7603	0.7629
linkage1%	0.9879	0.9755	0.9758
loan	0.9703	0.9394	0.9406
lrs	0.5242	0.8433	0.8496
lung_discrete	0.7143	1.0000	1.0000
lymphography	0.3843	0.4815	0.5155
lymphoma2	0.6667	1.0000	1.0000
machine-failure	0.9033	0.8050	0.8067
magic04	0.8421	0.6839	0.6841
malware	1.0000	1.0000	1.0000
mammography	0.8125	0.6245	0.6251
marketing	0.7594	0.5130	0.5179
mba	0.3952	0.1921	0.1925
mental-disorders	0.8537	0.7778	0.7926
messidor	0.6696	0.3377	0.3391
meter-A	0.8000	0.5294	0.6000
meter-B	1.0000	1.0000	1.0000
meter-C	0.9583	0.9234	0.9274
meter-D	0.8730	0.8442	0.8480
mfeat-fac	0.9756	0.9722	0.9723
mfeat-fou	0.8307	0.8111	0.8116
mfeat-kar	0.9607	0.9556	0.9557
Continued on next page			

Dataset	F1-macro	Kappa	MCC
mfeat-mor	0.7528	0.7167	0.7223
mfeat-pix	0.9854	0.9833	0.9834
mfeat-zer	0.7990	0.7667	0.7671
mice-prot	1.0000	1.0000	1.0000
milk	1.0000	1.0000	1.0000
mines	0.8063	0.7780	0.7797
mobile	0.6535	0.6333	0.6343
monks-1	1.0000	1.0000	1.0000
monks-3	0.9653	0.9283	0.9307
mushroom	1.0000	1.0000	1.0000
music	0.4782	0.3315	0.3324
MUT_ci300400a_cdk_ECFP2	0.8159	0.6317	0.6319
MUT_ci300400a_cdk_ECFP4	0.7955	0.5911	0.5911
MUT_ci300400a_cdk_ECFP6	0.7891	0.5780	0.5781
MUT_ci300400a_cdk_ESTATE	0.7645	0.5265	0.5290
MUT_ci300400a_cdk_EXTENDED	0.8304	0.6604	0.6608
MUT_ci300400a_cdk_FCFP2	0.8065	0.6131	0.6131
MUT_ci300400a_cdk_FCFP4	0.7914	0.5820	0.5827
MUT_ci300400a_cdk_FCFP6	0.7800	0.5594	0.5600
MUT_ci300400a_cdk_MACCS	0.8161	0.6320	0.6322
MUT_ci300400a_cdk_PUBCHEM	0.8341	0.6677	0.6682
MUT_ci300400a_cdk_STANDARD	0.7956	0.5907	0.5912
MUT_ci300400a_rdkit_descriptors	0.8238	0.6475	0.6476
myocardial	0.2819	0.3963	0.4218
naticusdroid	0.9720	0.9441	0.9441
nci9	0.2222	0.2727	0.3105
ncRNA10%	0.1838	0.1261	0.2326
neo	0.6729	0.3333	0.3426
new-thyroid	1.0000	1.0000	1.0000
new-thyroidT	1.0000	1.0000	1.0000
newspop	0.6335	0.2669	0.2670
NHANES_age_prediction	0.9917	0.9833	0.9834
nomao	0.9425	0.8850	0.8850
nursery	0.8000	1.0000	1.0000
obesity	0.9231	0.9114	0.9117
obs	1.0000	1.0000	1.0000
oh0-wc	0.8643	0.8537	0.8551
oh10-wc	0.7256	0.7066	0.7091
oh15-wc	0.7314	0.7174	0.7240
oh5-wc	0.7574	0.7277	0.7316
olive	0.9215	0.9118	0.9156
optdigits	0.9813	0.9782	0.9783
orlraws10P	0.8743	0.8889	0.8989
ozone1hr	0.6047	0.2088	0.2092
p53-mutants10%	0.4992	0.0000	0.0000
parkinson	0.9915	0.9828	0.9830
particle	0.9046	0.8081	0.8092
pc1	0.5548	0.1042	0.1074
pcmac	0.4303	-0.1379	0.0000
pediatric-leukemia	0.7537	0.7837	0.7879
pendigits	0.9640	0.9575	0.9582
period-10f	0.5000	0.0000	0.0000
persistence	0.7496	0.4991	0.4992
personalities	0.5193	0.3231	0.4331
pet-adoption	0.8968	0.7900	0.7935
phishing	0.9786	0.9571	0.9571
PhiUSIL10%	0.9978	0.9957	0.9957
phy	0.7107	0.4197	0.4214
Continued on next page			

Dataset	F1-macro	Kappa	MCC
pima	0.6240	0.2305	0.2466
pirvision	0.9953	0.9938	0.9938
placement	0.6809	0.3614	0.3617
plrx	0.3793	-0.1887	0.0000
polya	0.7349	0.4698	0.4698
popularity	0.4561	0.1873	0.1988
post-operative	0.5045	0.4000	0.5000
postures	0.9751	0.9686	0.9688
pred-tox_mutagen_ref-desc	0.5736	0.1471	0.1471
prestige	0.8889	0.8302	0.8462
primary-tumor	0.3226	0.2929	0.2971
processed	0.9919	0.9838	0.9838
profb	0.7108	0.4180	0.4215
promoters	0.8077	0.5455	0.6124
puc-rio	0.9824	0.9869	0.9869
pufs-1281%	0.4903	-0.0193	0.0000
pufs-6410%	0.4970	-0.0058	0.0000
pulsar	0.9413	0.8814	0.8825
raisin	0.9009	0.8000	0.8018
rejafada	0.8958	0.7678	0.7894
relathe	0.9929	0.9858	0.9859
rice	0.9834	0.9667	0.9667
rocket	0.6244	0.2475	0.2487
RT_IOT2022	0.4746	0.4274	0.4756
satimage	0.8764	0.8660	0.8660
scadi	0.4989	0.6316	0.6860
schiller	0.6786	0.3571	0.3571
sclerosis	1.0000	1.0000	1.0000
secom	0.4639	-0.0720	0.0000
secondary_mushroom	1.0000	1.0000	1.0000
seeds	1.0000	1.0000	1.0000
segment	0.9021	0.8635	0.8701
segmentation	0.8431	0.6861	0.6861
segmentO	0.9916	0.9830	0.9831
seismic	0.6006	0.2006	0.2011
sens-2-gram	0.5423	0.0802	0.0831
sens-3-gram	0.5984	0.1947	0.1963
sens-4-gram	0.6215	0.2424	0.2428
sensorless	0.9881	0.9868	0.9869
shoppers	0.7509	0.4935	0.5005
sick	0.8573	0.6981	0.7127
sirtuin6	0.9083	0.8000	0.8165
smarket	0.9921	0.9840	0.9841
smk_can_187	0.7933	0.5730	0.5866
smoking	0.7419	0.4824	0.4837
soil_pollution	0.2128	0.0163	0.0163
solar-flare	0.7657	0.7515	0.7544
sonar	0.7041	0.4000	0.4082
soybean	0.9944	0.9839	0.9841
spam-detection	0.8810	0.7579	0.7617
spambase	0.9295	0.8589	0.8590
spect	0.6786	0.3571	0.3571
spectf	0.8928	0.7835	0.7856
spectrometer	0.4130	0.5308	0.5370
squash-unstored	0.5714	0.6429	0.6944
startup	0.9666	0.9310	0.9332
steel_industry	0.8324	0.7799	0.7818
stellar	0.9641	0.9438	0.9440
Continued on next page			

Dataset	F1-macro	Kappa	MCC
stock	0.8553	0.7097	0.7105
stockb	0.9913	0.9868	0.9869
streaming	0.9778	0.9556	0.9556
stress	1.0000	1.0000	1.0000
student-depression	0.7992	0.5980	0.5984
student-habits	0.3487	0.1397	0.1408
student-lifestyle	0.3886	0.2148	0.2164
student-weekend	0.2130	0.0804	0.0819
student-workday	0.2627	0.2849	0.3005
studentap	0.2388	-0.1607	0.0000
swarm_aligned	1.0000	1.0000	1.0000
swarm_flocking	0.9996	0.9992	0.9992
swarm_grouped	1.0000	1.0000	1.0000
tae	0.5344	0.2000	0.2200
telco-churn	0.8451	0.6888	0.6902
texture	0.9949	0.9940	0.9940
theorem	0.9983	0.9966	0.9966
thoracic	0.4268	-0.1417	0.0000
Thyroid_Diff	0.9023	0.8028	0.8045
tis	0.8394	0.6787	0.6789
titanic	0.7934	0.5163	0.5813
tourist	0.4545	0.6444	0.6746
trains	0.3333	0.0000	0.0000
transfusion	0.5824	0.1641	0.1646
tuandromd	0.9825	0.9651	0.9651
turkish	0.8014	0.7333	0.7352
tvnews	0.8941	0.7883	0.7883
ur3_cobotops_grip	0.6952	0.3403	0.3749
ur3_cobotops_stop	0.7790	0.5016	0.5456
urban	0.8664	0.8260	0.8299
ustilago10%	0.5224	0.0394	0.0422
vehicle	0.7683	0.7128	0.7208
vote	0.8878	0.7681	0.7756
vowel	0.7013	0.6222	0.6314
wap-wc	0.6221	0.7016	0.7030
warpar10p	0.4741	0.5667	0.5824
warppie10p	1.0000	1.0000	1.0000
waveform	0.8029	0.7031	0.7041
weather-related	0.9554	0.9542	0.9544
weight-lift	0.9743	0.9691	0.9691
white-clover	0.3750	0.4000	0.5000
wifi-loc	1.0000	1.0000	1.0000
wilt	0.9699	0.9379	0.9397
wine	0.9410	0.9006	0.9064
winequality-red	0.3284	0.4414	0.4443
winequality-white	0.3608	0.4285	0.4291
winnipeg10%	0.9802	0.9903	0.9903
wisc.bc	0.9817	0.9627	0.9633
yale	0.7467	0.7983	0.8086
yeast	0.4383	0.4749	0.4812
yeastCYT-POX	0.9047	0.7897	0.8078
yeastEXC	0.6958	0.3799	0.3883
yeastME1	0.8546	0.6605	0.7022
yeastME2	0.6564	0.3060	0.3107
zip	0.9450	0.9434	0.9434

Table 18: Detailed results for ExtraTrees

Dataset	F1-macro	Kappa	MCC
abalone	0.1044	0.0605	0.0615
abalone19	0.5475	0.0189	0.0469
accelerometer	0.6845	0.2482	0.3275
ads	0.9413	0.8785	0.8824
advanced-iot	1.0000	1.0000	1.0000
AID_1431	0.4592	-0.0794	0.0000
AID_1431_KlekotaRothFingerprinter	0.4299	-0.1269	0.0000
AID_1431_MACCSFingerprinter	0.4592	-0.0794	0.0000
AID_1878	0.5371	0.0741	0.0742
AID_602330	0.4797	-0.0405	0.0000
AID_652128	0.2959	-0.0749	0.0000
AID1284red	0.5869	0.1649	0.1717
AID1608Moredred	0.5612	0.1098	0.1180
AID1608red	0.4602	-0.0436	0.0000
AID362red	0.4449	-0.0268	0.0000
AID456red	0.4778	-0.0058	0.0000
AID721moredred	0.8000	0.5263	0.5976
AID721red	1.0000	1.0000	1.0000
aids	0.8445	0.6856	0.6889
air_pollution	0.1755	0.0500	0.0504
alcohol	0.5607	0.6101	0.6204
all-aml	1.0000	1.0000	1.0000
anneal	0.8134	0.7268	0.7584
antivirus	1.0000	1.0000	1.0000
anuran-f-b	0.7655	0.3919	0.4936
anxiety	0.0956	-0.0213	0.0000
apple-quality	0.8334	0.6650	0.6669
arcene	0.7292	0.4231	0.4583
arrhythmia	0.6863	0.6734	0.6756
auction	0.7808	0.4679	0.5526
audiology	0.5991	0.7026	0.7072
audit-risk	0.9742	0.9470	0.9484
autism-adolescent	0.6931	0.3774	0.3858
autism-adult	0.9639	0.9278	0.9278
autism-child	0.9046	0.7914	0.8092
autos	0.7300	0.6129	0.6169
avila	0.8780	0.9328	0.9338
balance	0.5994	0.5346	0.5544
bankruptcy	1.0000	1.0000	1.0000
biodeg	0.8695	0.7388	0.7389
biomed	1.0000	1.0000	1.0000
body-perf	0.7196	0.6259	0.6296
brain-tumor	0.5105	0.0210	0.0210
breast-cancer	0.6022	0.1895	0.2038
breast-cancer-ma	0.5500	0.0984	0.1000
breast-tissue	0.7179	0.6733	0.6869
bridges	0.4545	0.5714	0.5798
cad	0.9629	0.9231	0.9258
cancer	1.0000	1.0000	1.0000
cancer-uae	0.3244	-0.0149	0.0000
car-insurance	0.8042	0.5993	0.6082
cardiotocography-nsp	0.7953	0.6889	0.7034
cardiovascular	0.7453	0.4654	0.4764
cargo2k	1.0000	1.0000	1.0000
cars	0.6718	0.5726	0.5911
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Dataset	F1-macro	Kappa	MCC
cervical-B	0.8767	0.7505	0.7531
cervical-H	0.7730	0.4300	0.5234
cervical-S	0.7833	0.5497	0.5642
children-anemia	0.6493	0.6045	0.6055
chrom211%	0.4998	0.0000	0.0000
churn	0.7104	0.4045	0.4192
cjs	0.9931	0.9913	0.9913
ckd	1.0000	1.0000	1.0000
clave	0.6684	0.6675	0.6683
cll_sub_111	0.6667	0.3333	0.3371
cmc	0.5040	0.2610	0.2638
cnae-9	0.9112	0.8958	0.8968
codon_usage	0.7316	0.8744	0.8746
coil20	1.0000	1.0000	1.0000
college	0.8873	0.7742	0.7746
collins	0.7785	0.7790	0.7821
colon-tumor	0.7500	0.4000	0.5000
colposcopies-1	0.6837	0.3587	0.3672
colposcopies-2	0.6565	0.3040	0.3125
colposcopies-4	0.5685	0.1369	0.1369
colposcopies-5	0.6090	0.2162	0.2176
colposcopies-c	0.6919	0.3741	0.3825
column-2c	0.8803	0.7328	0.7604
column-3c	0.8145	0.7391	0.7481
coupon	0.7125	0.4248	0.4249
covtypeCD	0.8983	0.7791	0.7957
covtypeT	0.7990	0.5213	0.5869
crabs	0.8062	0.7333	0.7383
crowdsourced	0.8291	0.8569	0.8581
cryotherapy	0.8163	0.5714	0.6325
cultivars	0.4386	0.4839	0.4903
cybersecurity	0.1782	0.0129	0.0130
cyclopentane	0.5084	0.0168	0.0169
cylinder-bands	0.6738	0.3452	0.3475
datatrieve	0.3500	-0.1471	0.0000
dbworld	1.0000	1.0000	1.0000
default	0.7087	0.3845	0.4211
dementia	1.0000	1.0000	1.0000
depressed	0.5779	0.1550	0.1556
dermatology	0.9729	0.9662	0.9671
desharnais	0.1667	-0.1707	0.0000
df_final	0.4478	0.0698	0.0751
DIA	0.6286	0.2558	0.2569
diagnosis	1.0000	1.0000	1.0000
diamonds	0.9754	0.9769	0.9773
diamonds_all	0.7678	0.6947	0.6907
dishonest	1.0000	1.0000	1.0000
dlbcl-nih	0.4286	-0.1351	0.0000
dlbcl-stanford	0.8333	0.6154	0.6667
drebin	0.9718	0.9436	0.9437
dropout	0.6904	0.5849	0.5875
ecoli	0.6869	0.7944	0.7964
ecoliCP-IM	1.0000	1.0000	1.0000
ecoliM	0.7791	0.5237	0.5569
ecoliMU	0.6205	0.1667	0.2236
ecoliOM	0.5985	0.1413	0.1789
ecommerce	0.2976	0.0552	0.0567
euthyroid	0.6667	0.2158	0.3130
Continued on next page			

Dataset	F1-macro	Kappa	MCC
fakenews	0.4799	-0.0401	0.0000
fbis-wc	0.7680	0.7811	0.7822
finance	0.6115	0.2202	0.2229
financial-risk	0.6174	0.6822	0.6907
flags	0.3966	0.4512	0.4625
forest	0.8846	0.8678	0.8682
gas	0.9949	0.9939	0.9939
gastrointestinal	0.5068	0.3962	0.4039
gender	0.4621	0.1855	0.1883
german	0.6703	0.3407	0.3407
gestures	0.9299	0.9064	0.9068
gina	0.9511	0.9020	0.9021
gisette	0.9630	0.9257	0.9260
glass	0.9246	0.8704	0.8732
glass-g2	0.7333	0.4667	0.4667
glassBWFP	0.8538	0.7042	0.7077
glassBWNFP	0.8372	0.6250	0.6742
glassContainers	0.7250	0.4500	0.4500
glassNW	0.9420	0.8772	0.8839
glassTableware	0.7019	0.2254	0.3563
GlaucomaM	0.7978	0.5824	0.5955
gli_85	0.3846	-0.2000	0.0000
glioma	0.8333	0.7059	0.7500
glioma-grade	0.8707	0.7360	0.7414
green	0.5238	0.0476	0.0476
gsalc	0.9167	0.8657	0.8788
haberman	0.5836	0.1624	0.1668
hapt	0.8268	0.9330	0.9331
har	0.9855	0.9832	0.9833
health-activity	0.3332	0.1054	0.1149
heart	0.8241	0.6322	0.6481
heart-c	0.8780	0.7273	0.7559
heart-failure	0.9651	0.9302	0.9303
heart-quantum	0.8841	0.7581	0.7681
hepatitis	0.8544	0.6667	0.7071
higher	0.2238	0.0778	0.0803
hinselmann	0.3333	-0.3158	0.0000
hitters	0.9373	0.8745	0.8745
hiv1-proteasa	0.8305	0.6470	0.6600
hiva	0.5626	0.1201	0.1231
horse	0.5571	0.2500	0.2514
hotel-reservartions	0.8669	0.7297	0.7315
hr	0.4766	-0.0468	0.0000
htru2	0.8901	0.7737	0.7797
hypothyroid	0.5157	0.3682	0.4554
immuno-therapy	0.8000	0.5263	0.5976
ionosphere	0.9038	0.8059	0.8076
iris	1.0000	1.0000	1.0000
irish	1.0000	1.0000	1.0000
isolet	0.9131	0.9065	0.9068
jm1	0.6474	0.2828	0.2932
javowels	0.9662	0.9636	0.9637
kc1-class-level-numericdefect	0.2992	0.2200	0.2289
kc1-class-level-top5percentDF	0.3750	-0.1250	0.0000
kc2	0.7804	0.5119	0.5584
kdc-4007	0.7940	0.7555	0.7561
kidney	0.1778	0.0000	0.0000
kidney-disease	1.0000	1.0000	1.0000
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Dataset	F1-macro	Kappa	MCC
la2s-wc	0.8570	0.8508	0.8526
labor	1.0000	1.0000	1.0000
leaf	0.5718	0.5975	0.6063
led24	0.7802	0.7143	0.7205
lenses	0.5714	0.5000	0.6124
letter	0.9429	0.9402	0.9403
linkage1%	0.8604	0.7210	0.7281
loan	0.9441	0.8869	0.8882
lrs	0.6593	0.7707	0.7748
lung_discrete	1.0000	1.0000	1.0000
lymphography	0.7307	0.5447	0.5797
lymphoma2	0.7895	0.8500	0.8645
machine-failure	0.9251	0.8483	0.8501
magic04	0.8280	0.6559	0.6561
malware	1.0000	1.0000	1.0000
mammography	0.8181	0.6274	0.6362
marketing	0.7707	0.5082	0.5380
mba	0.4978	0.2495	0.2990
mental-disorders	0.7623	0.6667	0.6860
messidor	0.6650	0.3175	0.3300
meter-A	0.7500	0.3846	0.4879
meter-B	1.0000	1.0000	1.0000
meter-C	1.0000	1.0000	1.0000
meter-D	1.0000	1.0000	1.0000
mfeat-fac	0.9554	0.9500	0.9502
mfeat-fou	0.7794	0.7500	0.7512
mfeat-kar	0.9761	0.9722	0.9724
mfeat-mor	0.6937	0.6611	0.6623
mfeat-pix	0.9811	0.9778	0.9780
mfeat-zer	0.7709	0.7444	0.7459
mice-prot	1.0000	1.0000	1.0000
milk	0.9919	0.9855	0.9857
mines	0.6071	0.5222	0.5239
mobile	0.9506	0.9466	0.9468
monks-1	0.7778	0.5243	0.5553
monks-3	0.9133	0.8219	0.8266
mushroom	1.0000	1.0000	1.0000
music	0.4849	0.3694	0.3738
MUT_ci300400a_cdk_ECFP2	0.7711	0.5372	0.5421
MUT_ci300400a_cdk_ECFP4	0.8032	0.6019	0.6065
MUT_ci300400a_cdk_ECFP6	0.7553	0.5098	0.5106
MUT_ci300400a_cdk_ESTATE	0.7245	0.4421	0.4490
MUT_ci300400a_cdk_EXTENDED	0.7982	0.5931	0.5965
MUT_ci300400a_cdk_FCFP2	0.7651	0.5276	0.5302
MUT_ci300400a_cdk_FCFP4	0.7634	0.5223	0.5268
MUT_ci300400a_cdk_FCFP6	0.7735	0.5431	0.5470
MUT_ci300400a_cdk_MACCS	0.7916	0.5814	0.5832
MUT_ci300400a_cdk_PUBCHEM	0.8116	0.6210	0.6231
MUT_ci300400a_cdk_STANDARD	0.7815	0.5616	0.5629
MUT_ci300400a_rdkit_descriptors	0.7906	0.5794	0.5811
myocardial	0.3615	0.4572	0.4578
naticusdroid	0.9653	0.9306	0.9306
nci9	0.7895	0.8000	0.8281
neo	0.6889	0.1908	0.2925
new-thyroid	1.0000	1.0000	1.0000
new-thyroidT	0.9211	0.8293	0.8416
NHANES_age_prediction	0.9087	0.8004	0.8168
nursery	0.9266	0.9505	0.9512
Continued on next page			

Dataset	F1-macro	Kappa	MCC
obesity	0.8424	0.8175	0.8183
obs	0.9366	0.9048	0.9056
oh0-wc	0.9156	0.8876	0.8903
oh10-wc	0.7898	0.7839	0.7851
oh15-wc	0.9184	0.9014	0.9024
oh5-wc	0.8948	0.8758	0.8766
olive	0.9385	0.9343	0.9362
optdigits	0.9621	0.9545	0.9546
orlraws10P	0.8743	0.8889	0.8989
ozone1hr	0.5844	0.1674	0.1683
p53-mutants10%	0.4960	-0.0051	0.0000
parkinson	0.9408	0.8804	0.8816
pc1	0.6422	0.2176	0.2667
pcmac	0.5264	0.0528	0.0529
pediatric-leukemia	0.7118	0.7094	0.7126
pendigits	0.9837	0.9818	0.9818
period-10f	0.5000	0.0000	0.0000
persistence	0.7987	0.5962	0.5973
pet-adoption	0.8801	0.7598	0.7602
phishing	0.9442	0.8885	0.8885
pima	0.7400	0.4798	0.4800
pirvision	0.9328	0.8911	0.8961
placement	0.7840	0.5669	0.5679
plrx	0.5282	0.0526	0.0555
polya	0.7631	0.5247	0.5261
post-operative	0.3077	-0.3636	0.0000
pred-tox_mutagen_ref-desc	0.7501	0.5000	0.5002
prestige	0.8889	0.8302	0.8462
primary-tumor	0.3760	0.3387	0.3467
profb	0.5476	0.0905	0.0950
promoters	1.0000	1.0000	1.0000
pulsar	0.9135	0.8236	0.8269
raisin	0.8599	0.7111	0.7199
rejafada	0.7153	0.2532	0.3807
relathe	0.9929	0.9858	0.9859
rice	0.9861	0.9722	0.9723
rocket	0.6675	0.3084	0.3350
satimage	0.8903	0.8810	0.8812
scadi	0.6600	0.6316	0.6667
schiller	0.4375	0.0000	0.0000
sclerosis	1.0000	1.0000	1.0000
secom	0.4817	-0.0118	0.0000
seeds	0.9152	0.8571	0.8660
segment	0.9605	0.9494	0.9494
segmentation	0.8135	0.6139	0.6270
segmentO	0.9345	0.8601	0.8687
seismic	0.6024	0.1461	0.1866
sens-2-gram	0.6458	0.2916	0.2916
sens-3-gram	0.6335	0.2665	0.2669
sens-4-gram	0.6178	0.2341	0.2352
shoppers	0.7716	0.5076	0.5398
sick	0.6561	0.1936	0.2821
sirtuin6	1.0000	1.0000	1.0000
smarket	0.9765	0.9519	0.9530
smk_can_187	0.5778	0.1556	0.1556
smoking	0.7250	0.4620	0.4703
soil_pollution	0.1713	-0.0335	0.0000
solar-flare	0.6603	0.6656	0.6744
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Dataset	F1-macro	Kappa	MCC
sonar	0.6000	0.2000	0.2000
soybean	0.9754	0.9519	0.9539
spam-detection	0.8142	0.5911	0.6240
spambase	0.9201	0.8395	0.8402
spect	0.6833	0.3103	0.3626
spectf	0.7585	0.5000	0.5164
spectrometer	0.4849	0.5605	0.5648
squash-unstored	1.0000	1.0000	1.0000
startup	1.0000	1.0000	1.0000
steel_industry	0.8559	0.8093	0.8097
stellar	0.9723	0.9643	0.9582
stock	0.8662	0.7239	0.7320
stockb	0.9824	0.9736	0.9737
streaming	0.9130	0.8259	0.8260
stress	1.0000	1.0000	1.0000
student-habits	0.2680	0.0785	0.0807
student-lifestyle	0.3803	0.2868	0.2983
student-weekend	0.2546	0.0967	0.1001
student-workday	0.2189	0.1286	0.1301
studentap	0.5556	0.2909	0.2909
swarm_aligned	0.9995	0.9990	0.9990
swarm_flocking	0.9996	0.9992	0.9992
tae	0.6188	0.4000	0.4201
telco-churn	0.8537	0.7052	0.7073
texture	0.9780	0.9739	0.9740
theorem	0.9950	0.9899	0.9900
thoracic	0.5613	0.1087	0.1196
Thyroid_Diff	0.9360	0.8721	0.8721
tis	0.8619	0.7199	0.7236
titanic	0.7103	0.4184	0.4205
tourist	0.5250	0.6364	0.6848
trains	0.3333	0.0000	0.0000
transfusion	0.5497	0.0949	0.0989
tuandromd	0.9541	0.9039	0.9081
turkish	0.7960	0.7333	0.7352
ur3_cobotops_grip	0.6301	0.1676	0.2265
ur3_cobotops_stop	0.6768	0.2430	0.3197
urban	0.8250	0.7902	0.7933
vehicle	0.7043	0.6758	0.6778
vote	0.9307	0.8605	0.8615
vowel	0.7570	0.7111	0.7174
wap-wc	0.6262	0.7930	0.7942
warpar10p	0.7330	0.7400	0.7501
warppie10p	1.0000	1.0000	1.0000
waveform	0.8537	0.7780	0.7804
weather-related	0.9751	0.9696	0.9697
weight-lift	0.9974	0.9968	0.9968
white-clover	0.3750	-0.2000	0.0000
wifi-loc	0.9950	0.9933	0.9934
wilt	0.7789	0.4484	0.5376
wine	1.0000	1.0000	1.0000
winequality-red	0.2779	0.2588	0.2652
winequality-white	0.3975	0.3664	0.3749
wisc.bc	0.9817	0.9627	0.9633
yale	0.6600	0.6667	0.6809
yeast	0.3864	0.4676	0.4686
yeastCYT-POX	0.7658	0.4068	0.5053
yeastEXC	0.6585	0.1761	0.2658
Continued on next page			

Dataset	F1-macro	Kappa	MCC
yeastME1	0.7292	0.2877	0.4099
yeastME2	0.6939	0.3607	0.3807
zip	0.9432	0.9422	0.9422

Table 19: Detailed results for GRF

Dataset	F1-macro	Kappa	MCC
abalone	0.1172	0.0764	0.0786
abalone19	0.4982	0.0000	0.0000
accelerometer	0.6876	0.0984	0.2275
ads	0.4623	0.0000	0.0000
adult	0.7969	0.5849	0.5932
advanced-iot	1.0000	1.0000	1.0000
AID_1431	0.4772	0.0000	0.0000
AID_1431_KlekotaRothFingerprinter	0.4772	0.0000	0.0000
AID_1431_MACCSFingerprinter	0.4772	0.0000	0.0000
AID_1878	0.4503	0.0000	0.0000
AID_602330	0.4894	0.0000	0.0000
AID_652128	0.3118	0.0000	0.0000
AID1284red	0.4627	0.0000	0.0000
AID1608Morered	0.4824	0.0000	0.0000
AID1608red	0.4850	0.0000	0.0000
AID362red	0.4965	0.0000	0.0000
AID373AID439red	0.5000	0.0000	0.0000
AID373red	0.4997	0.0000	0.0000
AID456red	0.4992	0.0000	0.0000
AID604	0.4991	0.0000	0.0000
AID604AID644_AllRed	0.4997	0.0000	0.0000
AID687AID721red	0.4998	0.0000	0.0000
AID687red	0.4992	0.0000	0.0000
AID688red	0.4977	0.0000	0.0000
AID721morered	0.4375	0.0000	0.0000
AID721red	0.4375	0.0000	0.0000
AID746AID1284red	0.4997	0.0000	0.0000
AID746red	0.4985	0.0000	0.0000
aids	0.8760	0.7282	0.7508
air_pollution	0.0826	0.0000	0.0000
alcohol	0.4911	0.3431	0.4260
all-aml	0.4000	0.0000	0.0000
anneal	0.9674	0.9317	0.9346
antivirus	1.0000	1.0000	1.0000
anuran-f-b	0.9562	0.9084	0.9122
anxiety	0.1291	0.0236	0.0237
apple-quality	0.8615	0.7200	0.7229
aps-failure	0.8400	0.6559	0.6762
arabidopsis1%	0.4980	0.0000	0.0000
arcene	0.7667	0.5098	0.5334
arrhythmia	0.2693	0.2544	0.3223
auction	0.9777	0.9544	0.9554
audiology	0.4786	0.7264	0.7381
audit-risk	1.0000	1.0000	1.0000
autism-adolescent	1.0000	1.0000	1.0000
autism-adult	1.0000	1.0000	1.0000
autism-child	1.0000	1.0000	1.0000
autos	0.5118	0.5139	0.5757
avila	0.9678	0.9800	0.9801
balance	0.6226	0.8176	0.8256
bank	0.7795	0.5552	0.5585
bankruptcy	0.9593	0.9153	0.9186
bio	0.8808	0.7400	0.7590
biodeg	0.8260	0.6448	0.6518
biomed	1.0000	1.0000	1.0000
Continued on next page			

Dataset	F1-macro	Kappa	MCC
bitcoin10%	0.2028	0.1233	0.2251
body-perf	0.7302	0.6338	0.6392
brain-tumor	0.4910	-0.0181	0.0000
breast-cancer	0.7325	0.3226	0.4385
breast-cancer-ma	0.6309	0.2414	0.2609
breast-tissue	0.7179	0.6733	0.6869
bridges	0.6420	0.6774	0.7246
bub12at310k-hg16-17	0.6654	0.1936	0.2783
cad	1.0000	1.0000	1.0000
cancer	1.0000	1.0000	1.0000
cancer-uae	0.2859	-0.0471	0.0000
car-insurance	0.8338	0.6675	0.6676
cardiotocography-nsp	0.8151	0.7047	0.7092
cardiovascular	0.7376	0.4738	0.4753
cargo2k	1.0000	1.0000	1.0000
cars	0.7445	0.6818	0.6827
ccds10%	0.4902	0.0000	0.0000
cdc_diabetes	0.4205	0.1746	0.2311
census	0.7484	0.4250	0.4792
cervical-B	0.8563	0.7088	0.7122
cervical-H	0.7640	0.3886	0.4911
cervical-S	0.8046	0.5212	0.5936
children-anemia	0.9062	0.9068	0.9081
chrom19	0.9302	0.8509	0.8596
chrom211%	0.4998	0.0000	0.0000
churn	0.7356	0.4401	0.4665
cjs	1.0000	1.0000	1.0000
ckd	1.0000	1.0000	1.0000
clave	0.6296	0.6264	0.6414
cll_sub_111	0.3590	0.1429	0.1508
cmc	0.5778	0.3589	0.3602
cnae-9	0.8848	0.8542	0.8568
codon_usage	0.6772	0.8425	0.8443
coil20	0.9933	0.9927	0.9927
college	0.9018	0.8036	0.8036
collins	0.8266	0.9339	0.9351
colon-tumor	0.4000	0.0000	0.0000
colposcopies-1	0.5519	0.0584	0.0889
colposcopies-2	0.6915	0.2162	0.3482
colposcopies-4	0.6848	0.1714	0.3062
colposcopies-5	0.4528	0.0000	0.0000
colposcopies-c	0.8054	0.5323	0.6022
column-2c	0.8931	0.7842	0.7863
column-3c	0.6845	0.6303	0.6338
connect-4	0.6348	0.4167	0.4941
coupon	0.7345	0.4645	0.4689
covtype	0.9118	0.9133	0.9135
covtypeCD	0.9668	0.9328	0.9336
covtypeT	0.9293	0.8567	0.8584
crabs	0.8062	0.7333	0.7383
creditcard_trans	0.9233	0.8407	0.8462
crowdsourced	0.6952	0.8208	0.8233
cryotherapy	0.7404	0.3721	0.4781
cultivars	0.4554	0.5161	0.5258
cybersecurity	0.1986	0.0372	0.0374
cyclopentane	0.8516	0.6949	0.7031
cylinder-bands	0.6558	0.2692	0.3082
datatrieve	0.4800	0.0000	0.0000
Continued on next page			

Dataset	F1-macro	Kappa	MCC
dating	0.0965	-0.0042	0.0000
dbworld	1.0000	1.0000	1.0000
default	0.7165	0.3984	0.4274
dementia	1.0000	1.0000	1.0000
deposit	0.7252	0.4276	0.4456
depressed	0.4542	0.0000	0.0000
dermatology	0.9429	0.9325	0.9325
desharnais	0.5333	0.4074	0.5042
df_final	0.4375	0.3000	0.3381
DIA	0.6918	0.1875	0.3216
diabetes-100k	0.8934	0.7621	0.7847
diagnosis	1.0000	1.0000	1.0000
diamonds	1.0000	1.0000	1.0000
diamonds_all	0.7862	0.6958	0.6993
dishonest	1.0000	1.0000	1.0000
dlbcl-nih	0.3684	0.0000	0.0000
dlbcl-stanford	0.7059	0.2857	0.4082
dna0.1%	0.4993	0.0000	0.0000
dota2	0.5708	0.1347	0.1414
drebin	0.9722	0.9439	0.9443
dropout	0.6635	0.5737	0.5839
ecoli	0.7465	0.8359	0.8380
ecoliCP-IM	1.0000	1.0000	1.0000
ecoliM	0.9175	0.8350	0.8350
ecoliMU	0.6822	0.3529	0.3614
ecoliOM	0.8514	0.6526	0.6960
ecommerce	0.2353	-0.0241	0.0000
euthyroid	0.9166	0.8318	0.8331
fakenews	0.5196	0.0389	0.0391
fbis-wc	0.6301	0.7273	0.7338
finance	0.6394	0.2703	0.2786
financial-risk	0.6793	0.8081	0.8099
flags	0.4705	0.6753	0.6924
forest	0.9069	0.8937	0.8983
gas	0.9888	0.9869	0.9869
gastrointestinal	0.6179	0.6643	0.7206
gender	0.4516	0.1240	0.1581
german	0.7013	0.2895	0.3844
gestures	0.9009	0.8676	0.8678
gina	0.9309	0.8616	0.8617
gisette	0.9516	0.9029	0.9032
glass	0.4204	0.5714	0.5888
glass-g2	0.9352	0.8621	0.8704
glassBWFP	0.8568	0.6736	0.7126
glassBWNFP	0.7237	0.4444	0.4472
glassContainers	0.4762	0.0000	0.0000
glassNW	0.9340	0.8591	0.8677
glassTableware	0.4884	0.0000	0.0000
GlaucomaM	0.7978	0.5824	0.5955
gli_85	0.4286	0.0000	0.0000
glioma	0.5333	0.4444	0.5774
glioma-grade	0.8845	0.7610	0.7689
green	0.6098	0.2105	0.2182
gsalc	0.7407	0.7353	0.7693
haberman	0.6058	0.1892	0.2070
hapt	0.8252	0.9231	0.9233
har	0.9795	0.9755	0.9755
harth10%	0.6493	0.8406	0.8422
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Dataset	F1-macro	Kappa	MCC
health-activity	0.2175	0.0000	0.0000
heart	0.7666	0.5263	0.5330
heart-c	0.8072	0.5909	0.6142
heart-failure	0.9767	0.9533	0.9534
heart-quantum	0.9423	0.8780	0.8847
hepatitis	0.4444	0.0000	0.0000
higher	0.1705	0.1083	0.1866
hinselmann	0.4444	0.0000	0.0000
hitters	0.9373	0.8745	0.8745
hiv1-proteasa	0.7464	0.4099	0.4766
hiva	0.4910	0.0000	0.0000
horse	0.4899	0.2733	0.3944
hotel-reservartions	0.8801	0.7576	0.7601
hr	0.4633	0.0000	0.0000
ht-sensor	0.9999	0.9999	0.9999
htru2	0.9322	0.8627	0.8643
hypothyroid	0.7219	0.9241	0.9251
immuno-therapy	0.4375	0.0000	0.0000
ionosphere	0.9346	0.8606	0.8690
iris	1.0000	1.0000	1.0000
irish	0.9800	0.9592	0.9600
isolet	0.8837	0.8732	0.8737
jm1	0.6515	0.1847	0.2638
jvowels	0.9238	0.9169	0.9172
kc1-class-level-numericdefect	0.1636	0.0000	0.0000
kc1-class-level-top5percentDF	0.4828	0.0000	0.0000
kc2	0.6298	0.2394	0.2551
kdc-4007	0.0377	0.0000	0.0000
kddcup991%	0.7385	0.9955	0.9955
kidney	0.1778	0.0000	0.0000
kidney-disease	1.0000	1.0000	1.0000
la2s-wc	0.7200	0.6523	0.6823
labor	0.8537	0.6667	0.7071
leaf	0.6897	0.6909	0.7025
led24	0.7217	0.6591	0.6629
lenses	0.1667	0.0000	0.0000
letter	0.9186	0.9142	0.9142
linkage1%	1.0000	1.0000	1.0000
loan	0.9901	0.9800	0.9802
lrs	0.8190	0.8151	0.8269
lung_discrete	0.3200	0.3333	0.4619
lymphography	0.4934	0.4510	0.4560
lymphoma2	0.2857	0.2500	0.3873
machine-failure	0.9369	0.8705	0.8737
magic04	0.8581	0.7098	0.7160
malware	1.0000	1.0000	1.0000
mammography	0.8325	0.6645	0.6651
marketing	0.7251	0.2748	0.3991
mba	0.3796	0.0671	0.1047
mental-disorders	0.8537	0.7778	0.7926
messidor	0.6673	0.3338	0.3347
meter-A	0.8873	0.7500	0.7746
meter-B	1.0000	1.0000	1.0000
meter-C	0.9583	0.9234	0.9274
meter-D	0.9148	0.9221	0.9262
mfeat-fac	0.9461	0.9389	0.9392
mfeat-fou	0.7915	0.7667	0.7679
mfeat-kar	0.9274	0.9167	0.9170
Continued on next page			

Dataset	F1-macro	Kappa	MCC
mfeat-mor	0.7007	0.6667	0.6670
mfeat-pix	0.9615	0.9556	0.9560
mfeat-zer	0.7469	0.7111	0.7128
mice-prot	1.0000	1.0000	1.0000
milk	1.0000	1.0000	1.0000
mines	0.6324	0.5575	0.5593
mobile	0.9283	0.9217	0.9220
monks-1	1.0000	1.0000	1.0000
monks-3	0.9824	0.9642	0.9648
mushroom	1.0000	1.0000	1.0000
music	0.5277	0.4082	0.4159
MUT_ci300400a_cdk_ECFP2	0.7718	0.5430	0.5435
MUT_ci300400a_cdk_ECFP4	0.7982	0.5963	0.5963
MUT_ci300400a_cdk_ECFP6	0.7619	0.5228	0.5237
MUT_ci300400a_cdk_ESTATE	0.7583	0.5141	0.5165
MUT_ci300400a_cdk_EXTENDED	0.8190	0.6374	0.6380
MUT_ci300400a_cdk_FCFP2	0.7974	0.5916	0.5947
MUT_ci300400a_cdk_FCFP4	0.7528	0.5004	0.5055
MUT_ci300400a_cdk_FCFP6	0.7707	0.5384	0.5414
MUT_ci300400a_cdk_MACCS	0.8025	0.6036	0.6050
MUT_ci300400a_cdk_PUBCHEM	0.8269	0.6537	0.6539
MUT_ci300400a_cdk_STANDARD	0.8037	0.6039	0.6073
MUT_ci300400a_rdkit_descriptors	0.8155	0.6310	0.6310
myocardial	0.1142	0.0000	0.0000
naticusdroid	0.9663	0.9325	0.9326
nci9	0.3793	0.4000	0.4671
ncRNA10%	0.6285	0.8008	0.8060
neo	0.6971	0.2908	0.3628
new-thyroid	0.9318	0.8871	0.8941
new-thyroidT	1.0000	1.0000	1.0000
newspop	0.6594	0.3147	0.3187
NHANES_age_prediction	1.0000	1.0000	1.0000
nomao	0.9489	0.8977	0.8978
nursery	0.9934	0.9876	0.9876
obesity	0.9412	0.9336	0.9338
obs	0.9733	0.9451	0.9451
oh0-wc	0.7941	0.7695	0.7782
oh10-wc	0.6841	0.6926	0.6989
oh15-wc	0.7792	0.7360	0.7470
oh5-wc	0.8352	0.7872	0.7923
olive	0.9009	0.8897	0.8935
optdigits	0.9520	0.9446	0.9447
orlraws10P	1.0000	1.0000	1.0000
ozone1hr	0.4909	0.0000	0.0000
p53-mutants10%	0.4992	0.0000	0.0000
parkinson	0.9915	0.9828	0.9830
particle	0.9133	0.8266	0.8266
pc1	0.4813	0.0000	0.0000
pcmac	0.3681	0.0000	0.0000
pediatric-leukemia	0.5881	0.6670	0.6814
pendigits	0.9766	0.9737	0.9738
period-10f	0.4000	0.0000	0.0000
persistence	0.7811	0.5484	0.5617
personalities	0.9383	0.9340	0.9341
pet-adoption	0.9376	0.8722	0.8751
phishing	0.9614	0.9228	0.9228
PhiUSIL10%	0.9987	0.9974	0.9974
phy	0.7102	0.4203	0.4204
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Dataset	F1-macro	Kappa	MCC
pima	0.6874	0.3489	0.3732
pirvision	0.9854	0.9750	0.9751
placement	0.7864	0.5725	0.5729
plrx	0.4194	0.0000	0.0000
polya	0.7252	0.4254	0.4487
popularity	0.4203	0.2068	0.2466
post-operative	0.4000	0.0000	0.0000
postures	0.9783	0.9733	0.9733
pred-tox_mutagen_ref-desc	0.6768	0.3529	0.3536
prestige	0.7438	0.6471	0.6605
primary-tumor	0.3005	0.3462	0.3687
processed	1.0000	1.0000	1.0000
profb	0.5921	0.1145	0.1643
promoters	0.8333	0.6154	0.6667
puc-rio	0.9819	0.9861	0.9861
pufs-1281%	0.4947	-0.0107	0.0000
pufs-6410%	0.4933	-0.0134	0.0000
pulsar	0.9485	0.8950	0.8969
raisin	0.9115	0.8222	0.8230
rejafada	0.4910	0.0000	0.0000
relathe	0.9929	0.9858	0.9859
rice	0.9850	0.9700	0.9701
rocket	0.6659	0.3286	0.3316
RT_IOT2022	0.9745	0.9945	0.9945
satimage	0.8720	0.8610	0.8628
scadi	0.6984	0.6316	0.6860
schiller	0.4375	0.0000	0.0000
sclerosis	1.0000	1.0000	1.0000
secom	0.4834	0.0000	0.0000
secondary_mushroom	0.9997	0.9993	0.9993
seeds	0.9553	0.9286	0.9317
segment	0.9508	0.9342	0.9346
segmentation	0.8191	0.6376	0.6382
segmentO	0.9913	0.9825	0.9827
seismic	0.4830	0.0000	0.0000
sens-2-gram	0.4648	0.0000	0.0000
sens-3-gram	0.4648	0.0000	0.0000
sens-4-gram	0.4648	0.0000	0.0000
sensorless	0.9872	0.9859	0.9859
shoppers	0.8009	0.5959	0.6012
sick	0.9084	0.7987	0.8154
sirtuin6	1.0000	1.0000	1.0000
smarket	0.9921	0.9840	0.9841
smk_can_187	0.5778	0.1556	0.1556
smoking	0.7761	0.5494	0.5522
soil_pollution	0.2056	0.0065	0.0065
solar-flare	0.7231	0.7131	0.7192
sonar	0.5525	0.1000	0.1048
soybean	0.9202	0.9515	0.9524
spam-detection	0.8651	0.7299	0.7301
spambase	0.9294	0.8573	0.8589
spect	0.6923	0.3478	0.3780
spectf	0.8250	0.5882	0.6455
spectrometer	0.3503	0.5073	0.5169
squash-unstored	0.8333	0.6154	0.6667
startup	1.0000	1.0000	1.0000
steel_industry	0.8850	0.8520	0.8522
stellar	0.9704	0.9542	0.9542
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Dataset	F1-macro	Kappa	MCC
stock	0.8498	0.6905	0.6990
stockb	0.9956	0.9934	0.9934
streaming	0.9960	0.9919	0.9919
stress	0.9845	0.9801	0.9805
student-depression	0.8278	0.6538	0.6555
student-habits	0.1454	-0.0852	0.0000
student-lifestyle	0.3370	0.3646	0.3716
student-weekend	0.1897	0.1303	0.1706
student-workday	0.1651	0.0000	0.0000
studentap	0.3636	0.1415	0.1788
swarm_aligned	1.0000	1.0000	1.0000
swarm_flocking	1.0000	1.0000	1.0000
swarm_grouped	1.0000	1.0000	1.0000
tae	0.5635	0.3000	0.3151
telco-churn	0.8394	0.6744	0.6786
texture	0.9609	0.9539	0.9539
theorem	1.0000	1.0000	1.0000
thoracic	0.4598	0.0000	0.0000
Thyroid_Diff	0.9365	0.8648	0.8728
tis	0.8643	0.7030	0.7273
titanic	0.7934	0.5163	0.5813
tourist	0.2894	0.4146	0.4679
trains	0.3333	0.0000	0.0000
transfusion	0.5481	0.0924	0.0954
tuandromd	0.9696	0.9386	0.9392
turkish	0.7491	0.6667	0.6706
tvnews	0.9186	0.8366	0.8371
ur3_cobotops_grip	0.7237	0.3245	0.4087
ur3_cobotops_stop	0.6787	0.0690	0.1890
urban	0.8475	0.8424	0.8440
ustilago10%	0.4973	0.0000	0.0000
vehicle	0.7018	0.6614	0.6669
vote	0.9307	0.8605	0.8615
vowel	0.7259	0.6889	0.6930
wap-wc	0.4836	0.6701	0.6814
warpar10p	0.8330	0.8267	0.8379
warppie10p	1.0000	1.0000	1.0000
waveform	0.8302	0.7450	0.7452
weather-related	0.9649	0.9586	0.9586
weight-lift	0.9997	0.9997	0.9997
white-clover	0.2500	-0.5000	0.0000
wifi-loc	0.9802	0.9733	0.9735
wilt	0.9182	0.8297	0.8359
wine	1.0000	1.0000	1.0000
winequality-red	0.2784	0.3141	0.3286
winequality-white	0.2986	0.3353	0.3481
winnipeg10%	0.9905	0.9852	0.9853
wisc.bc	0.9432	0.8858	0.8864
yale	0.5926	0.6000	0.6128
yeast	0.5055	0.4555	0.4626
yeastCYT-POX	0.4896	0.0000	0.0000
yeastEXC	0.4932	0.0000	0.0000
yeastME1	0.7662	0.3934	0.4949
yeastME2	0.4879	0.0000	0.0000
zip	0.9217	0.9204	0.9205

Table 20: Detailed results for k-NN

Dataset	F1-macro	Kappa	MCC
abalone	0.1206	0.0839	0.0833
abalone19	0.4982	0.0000	0.0000
accelerometer	0.6441	0.2130	0.2584
ads	0.9061	0.8121	0.8121
adult	0.7602	0.5101	0.5194
advanced-iot	1.0000	1.0000	1.0000
AID_1431	0.4772	0.0000	0.0000
AID_1431_KlekotaRothFingerprinter	0.4750	-0.0148	0.0000
AID_1431_MACCSFingerprinter	0.4772	0.0000	0.0000
AID_1878	0.4503	0.0000	0.0000
AID_602330	0.4880	-0.0093	0.0000
AID_652128	0.3118	0.0000	0.0000
AID1284red	0.4545	-0.0485	0.0000
AID1608Morered	0.5965	0.1660	0.1826
AID1608red	0.4850	0.0000	0.0000
AID362red	0.4965	0.0000	0.0000
AID373AID439red	0.5000	0.0000	0.0000
AID373red	0.4997	0.0000	0.0000
AID456red	0.4992	0.0000	0.0000
AID604	0.9705	0.9410	0.9410
AID604AID644_AllRed	0.4997	0.0000	0.0000
AID687AID721red	0.4998	0.0000	0.0000
AID687red	0.4992	0.0000	0.0000
AID688red	0.4977	0.0000	0.0000
AID721morered	0.4375	0.0000	0.0000
AID721red	0.4375	0.0000	0.0000
AID746AID1284red	0.4997	0.0000	0.0000
AID746red	0.6782	0.0537	0.1662
aids	0.6965	0.3466	0.3851
air_pollution	0.1933	0.0120	0.0381
alcohol	0.7909	0.7364	0.7371
all-aml	1.0000	1.0000	1.0000
anneal	0.9858	0.9759	0.9762
antivirus	0.9554	0.9068	0.9108
anuran-f-b	1.0000	1.0000	1.0000
anxiety	0.0968	-0.0219	0.0000
apple-quality	0.8855	0.7700	0.7710
aps-failure	0.8219	0.6328	0.6420
arabidopsis1%	0.5931	0.1831	0.1850
arcene	0.6784	0.3478	0.3563
arrhythmia	0.2130	0.1988	0.2688
auction	0.7901	0.4802	0.5621
audiology	0.3362	0.6913	0.7045
audit-risk	0.9736	0.9459	0.9473
autism-adolescent	0.6931	0.3774	0.3858
autism-adult	0.8697	0.7244	0.7389
autism-child	0.7354	0.4528	0.4708
autos	0.6553	0.7324	0.7377
avila	0.7763	0.6938	0.6939
balance	0.6241	0.8176	0.8256
bank	0.6872	0.3209	0.3599
bankruptcy	1.0000	1.0000	1.0000
bio	0.8987	0.7897	0.7966
biodeg	0.8576	0.7146	0.7152
biomed	1.0000	1.0000	1.0000
Continued on next page			

Dataset	F1-macro	Kappa	MCC
bitcoin10%	0.0463	0.0047	0.0343
body-perf	0.6381	0.5055	0.5112
brain-tumor	0.5029	0.0059	0.0059
breast-cancer	0.5195	0.0308	0.0365
breast-cancer-ma	0.4248	-0.1379	0.0000
breast-tissue	0.8470	0.7800	0.7879
bridges	0.4685	0.3590	0.3742
bub12at310k-hg16-17	0.6256	0.1638	0.2164
cad	0.9629	0.9231	0.9258
cancer	1.0000	1.0000	1.0000
cancer-uae	0.2980	-0.0443	0.0000
car-insurance	0.7701	0.5398	0.5402
cardiotocography-nsp	0.8382	0.7551	0.7585
cardiovascular	0.6718	0.3431	0.3436
cargo2k	0.9797	0.9695	0.9697
cars	0.6194	0.4299	0.4338
ccds10%	0.6397	0.0396	0.1227
cdc_diabetes	0.4104	0.1506	0.2026
census	0.6967	0.3221	0.3719
cervical-B	0.4788	-0.0203	0.0000
cervical-H	0.6708	0.3120	0.3323
cervical-S	0.8495	0.6895	0.6980
children-anemia	0.3882	0.3012	0.3047
chrom19	0.9186	0.8326	0.8367
chrom211%	0.4998	0.0000	0.0000
churn	0.6900	0.3477	0.3739
cjs	0.9859	0.9826	0.9826
ckd	1.0000	1.0000	1.0000
clave	0.6616	0.6910	0.6980
cll_sub_111	0.6964	0.3617	0.4002
cmc	0.5022	0.2283	0.2295
cnae-9	0.8652	0.8333	0.8385
codon_usage	0.8203	0.9070	0.9072
coil20	0.9812	0.9781	0.9784
college	0.9172	0.8338	0.8343
collins	0.2091	0.3005	0.3128
colon-tumor	0.5000	0.0000	0.0000
colposcopies-1	0.5519	0.0584	0.0889
colposcopies-2	0.6556	0.1104	0.2417
colposcopies-4	0.6544	0.2509	0.2970
colposcopies-5	0.4528	0.0000	0.0000
colposcopies-c	0.6736	0.2984	0.3376
column-2c	0.8524	0.7048	0.7048
column-3c	0.6847	0.5804	0.5814
connect-4	0.7262	0.6308	0.6476
coupon	0.6176	0.2281	0.2348
covtype	0.8937	0.9019	0.9019
covtypeCD	0.9791	0.9581	0.9582
covtypeT	0.9442	0.8885	0.8885
crabs	0.9541	0.9333	0.9365
creditcard_trans	0.9317	0.8629	0.8634
crowdsourced	0.8858	0.9163	0.9165
cryotherapy	0.9000	0.7805	0.8000
cultivars	0.3586	0.4870	0.4944
cybersecurity	0.1455	-0.0302	0.0000
cyclopentane	0.6115	0.2080	0.2229
cylinder-bands	0.7129	0.4088	0.4253
datatrieve	0.4800	0.0000	0.0000
Continued on next page			

Dataset	F1-macro	Kappa	MCC
dating	0.0945	-0.0062	0.0000
dbworld	0.3636	0.0000	0.0000
default	0.6972	0.3610	0.3887
dementia	1.0000	1.0000	1.0000
deposit	0.6835	0.3106	0.3515
depressed	0.4521	-0.0136	0.0000
dermatology	0.9429	0.9325	0.9325
desharnais	0.4678	0.3333	0.3638
df_final	0.6143	0.3086	0.3551
DIA	0.8416	0.6316	0.6794
diabetes-100k	0.6813	0.2278	0.3145
diagnosis	1.0000	1.0000	1.0000
diamonds	0.9350	0.9305	0.9316
diamonds_all	0.6032	0.5171	0.5265
dishonest	1.0000	1.0000	1.0000
dlbcl-nih	0.4345	-0.1304	0.0000
dlbcl-stanford	1.0000	1.0000	1.0000
dna0.1%	0.4993	0.0000	0.0000
dota2	0.5414	0.0821	0.0829
drebin	0.9793	0.9585	0.9586
dropout	0.6553	0.5242	0.5617
ecoli	0.5681	0.8369	0.8390
ecoliCP-IM	1.0000	1.0000	1.0000
ecoliM	0.9169	0.8197	0.8333
ecoliMU	0.6333	0.2667	0.2667
ecoliOM	0.8514	0.6526	0.6960
ecommerce	0.2690	0.0235	0.0240
euthyroid	0.8573	0.7110	0.7143
fakenews	0.5093	0.0183	0.0186
fbis-wc	0.5191	0.5358	0.5444
finance	0.5748	0.1384	0.1489
financial-risk	0.4214	0.4879	0.5125
flags	0.2420	0.2994	0.3044
forest	0.8658	0.8398	0.8470
gas	0.9960	0.9948	0.9948
gastrointestinal	0.6898	0.5031	0.5063
gender	0.4242	0.1830	0.2048
german	0.6608	0.2487	0.3097
gestures	0.6966	0.5551	0.5760
gina	0.8370	0.6707	0.6739
gisette	0.9529	0.9057	0.9058
glass	0.7067	0.6569	0.6619
glass-g2	0.8091	0.6129	0.6181
glassBWFP	0.8467	0.6897	0.6934
glassBWNFP	0.7857	0.5714	0.5714
glassContainers	1.0000	1.0000	1.0000
glassNW	0.9340	0.8591	0.8677
glassTableware	0.8483	0.6452	0.6901
GlaucomaM	0.7978	0.5824	0.5955
gli_85	1.0000	1.0000	1.0000
glioma	0.6250	0.7059	0.7500
glioma-grade	0.8679	0.7339	0.7358
green	0.6098	0.2105	0.2182
gsalc	0.9167	0.8657	0.8788
haberman	0.6698	0.3226	0.3371
hapt	0.8216	0.9513	0.9514
har	0.9950	0.9942	0.9942
harth10%	0.6709	0.8453	0.8459
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Dataset	F1-macro	Kappa	MCC
health-activity	0.2175	0.0000	0.0000
heart	0.8914	0.7596	0.7826
heart-c	0.9364	0.8649	0.8729
heart-failure	0.9651	0.9293	0.9301
heart-quantum	0.8195	0.6341	0.6389
hepatitis	0.7917	0.5833	0.5833
higher	0.1339	0.1250	0.1508
hinselmann	0.4444	0.0000	0.0000
hitters	0.6942	0.3574	0.3874
hiv1-proteasa	0.7755	0.5358	0.5491
hiva	0.4897	-0.0084	0.0000
horse	0.4481	0.1401	0.2705
hotel-reservartions	0.8332	0.6582	0.6661
hr	0.4633	0.0000	0.0000
ht-sensor	1.0000	1.0000	1.0000
htru2	0.9300	0.8571	0.8598
hypothyroid	0.4613	0.3930	0.4543
immuno-therapy	0.4375	0.0000	0.0000
ionosphere	0.9038	0.8059	0.8076
iris	1.0000	1.0000	1.0000
irish	1.0000	1.0000	1.0000
isolet	0.9052	0.8999	0.9000
jm1	0.6569	0.2366	0.2924
javowels	0.9970	0.9966	0.9966
kc1-class-level-numericdefect	0.0357	0.2045	0.2477
kc1-class-level-top5percentDF	0.4828	0.0000	0.0000
kc2	0.6512	0.2956	0.3012
kdc-4007	0.3488	0.1524	0.2476
kddcup991%	0.5457	0.9979	0.9979
kidney	0.1778	0.0000	0.0000
kidney-disease	1.0000	1.0000	1.0000
la2s-wc	0.4498	0.2935	0.3386
labor	1.0000	1.0000	1.0000
leaf	0.3317	0.5677	0.5734
led24	0.6391	0.6056	0.6179
lenses	0.1667	0.0000	0.0000
letter	0.9605	0.9594	0.9594
linkage1%	0.9761	0.9522	0.9522
loan	0.9046	0.8082	0.8092
lrs	0.5605	0.7915	0.7986
lung_discrete	0.6767	0.8462	0.8629
lymphography	0.4062	0.5758	0.5836
lymphoma2	0.6667	1.0000	1.0000
machine-failure	0.9251	0.8483	0.8501
magic04	0.8238	0.6275	0.6470
malware	1.0000	1.0000	1.0000
mammography	0.8330	0.6636	0.6660
marketing	0.7370	0.3147	0.4321
mba	0.3409	0.0087	0.0161
mental-disorders	0.8333	0.7778	0.7778
messidor	0.6239	0.2425	0.2479
meter-A	0.8000	0.5294	0.6000
meter-B	1.0000	1.0000	1.0000
meter-C	0.9571	0.9227	0.9268
meter-D	0.7941	0.6910	0.7128
mfeat-fac	0.9807	0.9778	0.9779
mfeat-fou	0.8098	0.7833	0.7842
mfeat-kar	0.9561	0.9500	0.9502
Continued on next page			

Dataset	F1-macro	Kappa	MCC
mfeat-mor	0.7265	0.6944	0.6947
mfeat-pix	0.9856	0.9833	0.9834
mfeat-zer	0.8057	0.7833	0.7837
mice-prot	1.0000	1.0000	1.0000
milk	1.0000	1.0000	1.0000
mines	0.4346	0.3398	0.3517
mobile	0.7274	0.6903	0.6923
monks-1	0.8415	0.6715	0.6830
monks-3	0.9127	0.8205	0.8253
mushroom	1.0000	1.0000	1.0000
music	0.4998	0.3671	0.3774
MUT_ci300400a_cdk_ECFP2	0.7669	0.5331	0.5338
MUT_ci300400a_cdk_ECFP4	0.7646	0.5289	0.5291
MUT_ci300400a_cdk_ECFP6	0.7491	0.4983	0.4983
MUT_ci300400a_cdk_ESTATE	0.7366	0.4726	0.4733
MUT_ci300400a_cdk_EXTENDED	0.8448	0.6896	0.6896
MUT_ci300400a_cdk_FCFP2	0.7635	0.5266	0.5269
MUT_ci300400a_cdk_FCFP4	0.7534	0.5066	0.5068
MUT_ci300400a_cdk_FCFP6	0.7663	0.5297	0.5325
MUT_ci300400a_cdk_MACCS	0.8108	0.6214	0.6215
MUT_ci300400a_cdk_PUBCHEM	0.8280	0.6557	0.6561
MUT_ci300400a_cdk_STANDARD	0.8442	0.6881	0.6884
MUT_ci300400a_rdkit_descriptors	0.8432	0.6862	0.6864
myocardial	0.2657	0.2387	0.3689
naticusdroid	0.9618	0.9236	0.9237
nci9	0.4444	0.6250	0.6901
ncRNA10%	0.5980	0.7838	0.7864
neo	0.6626	0.2316	0.2931
new-thyroid	1.0000	1.0000	1.0000
new-thyroidT	1.0000	1.0000	1.0000
newspop	0.6412	0.2823	0.2823
NHANES_age_prediction	0.8863	0.7612	0.7718
nomao	0.9378	0.8756	0.8756
nursery	0.6746	0.9075	0.9081
obesity	0.8313	0.8063	0.8073
obs	1.0000	1.0000	1.0000
oh0-wc	0.4830	0.4098	0.4355
oh10-wc	0.2482	0.1623	0.2379
oh15-wc	0.3263	0.1764	0.2200
oh5-wc	0.1485	0.0246	0.1091
olive	0.9385	0.9343	0.9362
optdigits	0.9735	0.9683	0.9685
orlraws10P	1.0000	1.0000	1.0000
ozone1hr	0.4889	-0.0131	0.0000
p53-mutants10%	0.4992	0.0000	0.0000
parkinson	0.9329	0.8638	0.8658
particle	0.8769	0.7534	0.7538
pc1	0.5548	0.1042	0.1074
pcmac	0.5672	0.0581	0.1088
pediatric-leukemia	0.6727	0.6648	0.7070
pendigits	0.9936	0.9929	0.9929
period-10f	0.1000	-0.5000	0.0000
persistence	0.7002	0.3667	0.3979
personalities	0.9882	0.9874	0.9874
pet-adoption	0.7796	0.5567	0.5591
phishing	0.9707	0.9406	0.9415
PhiUSIL10%	0.9918	0.9835	0.9835
phy	0.6780	0.3560	0.3560
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Dataset	F1-macro	Kappa	MCC
pima	0.7191	0.4081	0.4366
pirvision	0.9977	0.9959	0.9959
placement	0.7919	0.5835	0.5837
plrx	0.4194	0.0000	0.0000
polya	0.7428	0.4835	0.4855
popularity	0.4084	0.2153	0.2240
post-operative	0.2667	0.0000	0.0000
postures	0.9690	0.9616	0.9617
pred-tox_mutagen_ref-desc	0.6808	0.3235	0.3605
prestige	1.0000	1.0000	1.0000
primary-tumor	0.2031	0.3596	0.3718
processed	0.9081	0.8153	0.8162
profb	0.6240	0.2136	0.2423
promoters	0.9083	0.8000	0.8165
puc-rio	0.9891	0.9911	0.9911
pufs-1281%	0.4960	-0.0080	0.0000
pufs-6410%	0.5061	0.0122	0.0122
pulsar	0.9407	0.8785	0.8814
raisin	0.9115	0.8222	0.8230
rejafada	0.4871	-0.0216	0.0000
relathe	1.0000	1.0000	1.0000
rice	0.9856	0.9711	0.9711
rocket	0.6004	0.2007	0.2007
RT_IOT2022	0.9764	0.9951	0.9951
satimage	0.8953	0.8832	0.8833
scadi	0.3896	0.6111	0.6288
schiller	0.4375	0.0000	0.0000
sclerosis	0.9635	0.9244	0.9270
secom	0.4834	0.0000	0.0000
secondary_mushroom	1.0000	1.0000	1.0000
seeds	0.9553	0.9286	0.9317
segment	0.9494	0.9342	0.9347
segmentation	0.8571	0.7131	0.7141
segmentO	0.9916	0.9830	0.9831
seismic	0.4819	-0.0074	0.0000
sens-2-gram	0.5897	0.0557	0.1124
sens-3-gram	0.6333	0.1180	0.2005
sens-4-gram	0.5795	0.0936	0.1305
sensorless	0.8587	0.8439	0.8441
shoppers	0.7254	0.3840	0.4365
sick	0.7550	0.4968	0.5072
sirtuin6	0.9083	0.8000	0.8165
smarket	0.8348	0.6626	0.6697
smk_can_187	0.5748	0.1461	0.1495
smoking	0.7747	0.5493	0.5493
soil_pollution	0.2023	0.0043	0.0043
solar-flare	0.6716	0.6847	0.6901
sonar	0.8276	0.6000	0.6547
soybean	0.9894	0.9677	0.9687
spam-detection	0.8523	0.7027	0.7044
spambase	0.8885	0.7770	0.7771
spect	0.6469	0.2921	0.2936
spectf	0.8205	0.6392	0.6408
spectrometer	0.2274	0.4402	0.4457
squash-unstored	0.5385	0.5455	0.6124
startup	0.7871	0.4874	0.5676
steel_industry	0.8280	0.7746	0.7747
stellar	0.8934	0.8275	0.8300
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Dataset	F1-macro	Kappa	MCC
stock	0.7130	0.3108	0.3976
stockb	1.0000	1.0000	1.0000
streaming	0.8074	0.6121	0.6148
stress	1.0000	1.0000	1.0000
student-depression	0.6992	0.3872	0.3981
student-habits	0.1793	-0.0897	0.0000
student-lifestyle	0.3281	0.3412	0.3514
student-weekend	0.1271	-0.0629	0.0000
student-workday	0.1651	0.0000	0.0000
studentap	0.5750	0.2642	0.2754
swarm_aligned	1.0000	1.0000	1.0000
swarm_flocking	1.0000	1.0000	1.0000
swarm_grouped	1.0000	1.0000	1.0000
tae	0.5333	0.3000	0.3020
telco-churn	0.8328	0.6586	0.6651
texture	0.9810	0.9779	0.9779
theorem	0.9832	0.9663	0.9663
thoracic	0.4598	0.0000	0.0000
Thyroid_Diff	0.9048	0.7912	0.8090
tis	0.4294	0.0000	0.0000
titanic	0.7101	0.4121	0.4196
tourist	0.2626	0.4146	0.4395
trains	0.3333	0.0000	0.0000
transfusion	0.5365	0.0711	0.0726
tuandromd	0.9825	0.9651	0.9651
turkish	0.6933	0.6000	0.6092
tvnews	0.9391	0.8768	0.8783
ur3_cobotops_grip	0.7282	0.4002	0.4410
ur3_cobotops_stop	0.7400	0.3045	0.4238
urban	0.7837	0.7541	0.7593
ustilago10%	0.4973	0.0000	0.0000
vehicle	0.6882	0.6431	0.6436
vote	1.0000	1.0000	1.0000
vowel	0.6396	0.5444	0.5519
wap-wc	0.2776	0.3190	0.3594
warpar10p	0.4950	0.4834	0.4933
warppie10p	1.0000	1.0000	1.0000
waveform	0.8387	0.7570	0.7580
weather-related	0.9756	0.9695	0.9695
weight-lift	0.9931	0.9916	0.9916
white-clover	0.1667	-0.2857	0.0000
wifi-loc	1.0000	1.0000	1.0000
wilt	0.8924	0.7711	0.7836
wine	1.0000	1.0000	1.0000
winequality-red	0.3157	0.4283	0.4291
winequality-white	0.3957	0.4856	0.4858
winnipeg10%	0.9970	0.9950	0.9950
wisc.bc	0.9813	0.9619	0.9626
yale	0.6732	0.6667	0.6839
yeast	0.3775	0.3825	0.3881
yeastCYT-POX	0.9047	0.7897	0.8078
yeastEXC	0.7431	0.4861	0.4861
yeastME1	0.7431	0.4861	0.4861
yeastME2	0.4879	0.0000	0.0000
zip	0.9546	0.9542	0.9542

Table 21: Detailed results for LDWD

Dataset	F1-macro	Kappa	MCC
abalone	0.1307	0.1153	0.1204
abalone19	0.4982	0.0000	0.0000
accelerometer	0.4955	0.0000	0.0000
ads	0.4623	0.0000	0.0000
adult	0.4328	0.0000	0.0000
advanced-iot	1.0000	1.0000	1.0000
AID_1431	0.4772	0.0000	0.0000
AID_1431_KlekotaRothFingerprinter	0.4772	0.0000	0.0000
AID_1431_MACCSFingerprinter	0.4772	0.0000	0.0000
AID_1878	0.4503	0.0000	0.0000
AID_602330	0.4894	0.0000	0.0000
AID_652128	0.3118	0.0000	0.0000
AID1284red	0.4627	0.0000	0.0000
AID1608Morered	0.4824	0.0000	0.0000
AID1608red	0.4850	0.0000	0.0000
AID362red	0.4965	0.0000	0.0000
AID373AID439red	0.5000	0.0000	0.0000
AID373red	0.4997	0.0000	0.0000
AID456red	0.4992	0.0000	0.0000
AID604	0.4991	0.0000	0.0000
AID604AID644_AllRed	0.4997	0.0000	0.0000
AID687AID721red	0.4998	0.0000	0.0000
AID687red	0.4992	0.0000	0.0000
AID688red	0.4977	0.0000	0.0000
AID721morered	0.4375	0.0000	0.0000
AID721red	0.4375	0.0000	0.0000
AID746AID1284red	0.4997	0.0000	0.0000
AID746red	0.4985	0.0000	0.0000
aids	0.7975	0.5860	0.5942
air_pollution	0.0826	0.0000	0.0000
alcohol	0.4496	0.5538	0.5652
all-aml	1.0000	1.0000	1.0000
anneal	0.9858	0.9759	0.9762
antivirus	1.0000	1.0000	1.0000
anuran-f-b	0.4979	0.0000	0.0000
anxiety	0.0731	-0.0189	0.0000
apple-quality	0.7317	0.4600	0.4633
aps-failure	0.4955	0.0000	0.0000
arabidopsis1%	0.4980	0.0000	0.0000
arcene	0.7917	0.5833	0.5833
arrhythmia	0.5703	0.4488	0.4816
auction	0.6836	0.2263	0.3197
audiology	0.9556	0.8937	0.9003
audit-risk	0.9480	0.8905	0.8959
autism-adolescent	0.3889	0.0000	0.0000
autism-adult	0.4215	0.0000	0.0000
autism-child	1.0000	1.0000	1.0000
autos	0.9064	0.8667	0.8758
avila	0.4135	0.3551	0.4283
balance	0.8845	0.8604	0.8635
bank	0.7583	0.5080	0.5152
bankruptcy	1.0000	1.0000	1.0000
bio	0.4978	0.0000	0.0000
biodeg	0.8803	0.7600	0.7606
biomed	0.9507	0.8966	0.9014
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Dataset	F1-macro	Kappa	MCC
bitcoin10%	0.0903	0.0000	0.0000
body-perf	0.6348	0.5144	0.5155
brain-tumor	0.3340	0.0000	0.0000
breast-cancer	0.5990	0.1765	0.1936
breast-cancer-ma	0.3529	0.0000	0.0000
breast-tissue	0.4706	0.4500	0.4546
bridges	0.6525	0.6970	0.7098
bub12at310k-hg16-17	0.4762	0.0000	0.0000
cad	1.0000	1.0000	1.0000
cancer	1.0000	1.0000	1.0000
cancer-uae	0.2201	0.0000	0.0000
car-insurance	0.8085	0.6044	0.6010
cardiotocography-nsp	0.8118	0.7110	0.7116
cardiovascular	0.3335	0.0000	0.0000
cargo2k	1.0000	1.0000	1.0000
cars	0.5847	0.4606	0.4797
ccds10%	0.4902	0.0000	0.0000
cdc_diabetes	0.3048	0.0000	0.0000
census	0.4835	0.0000	0.0000
cervical-B	0.7962	0.5764	0.5897
cervical-H	0.4881	0.0000	0.0000
cervical-S	0.7584	0.3768	0.4818
children-anemia	0.1445	0.0000	0.0000
chrom19	0.4998	0.0000	0.0000
chrom211%	0.4990	0.0000	0.0000
churn	0.6348	0.1761	0.2393
cjs	1.0000	1.0000	1.0000
ckd	0.3939	0.0000	0.0000
clave	0.5454	0.6738	0.6782
cll_sub_111	0.6369	0.3023	0.3061
cmc	0.4513	0.1708	0.1722
cnae-9	0.9544	0.9479	0.9482
codon_usage	0.7446	0.8588	0.8592
coil20	0.9937	0.9927	0.9927
college	0.8873	0.7742	0.7746
collins	0.7122	0.8454	0.8496
colon-tumor	0.6604	0.1818	0.3162
colposcopies-1	0.6837	0.3587	0.3672
colposcopies-2	0.6122	0.2120	0.2233
colposcopies-4	0.4200	0.0000	0.0000
colposcopies-5	0.4528	0.0000	0.0000
colposcopies-c	0.4314	0.0000	0.0000
column-2c	0.8931	0.7842	0.7863
column-3c	0.7395	0.6853	0.6865
connect-4	0.3296	0.0000	0.0000
coupon	0.6767	0.3516	0.3533
covtype	0.0936	0.0000	0.0000
covtypeCD	0.8822	0.7599	0.7640
covtypeT	0.7531	0.4794	0.5004
crabs	1.0000	1.0000	1.0000
creditcard_trans	0.4996	0.0000	0.0000
crowdsourced	0.7640	0.7896	0.7913
cryotherapy	0.9000	0.7805	0.8000
cultivars	0.4318	0.5823	0.5895
cybersecurity	0.0772	-0.0243	0.0000
cyclopentane	0.6201	0.2373	0.2401
cylinder-bands	0.6942	0.3872	0.3884
datatrieve	0.4800	0.0000	0.0000
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Dataset	F1-macro	Kappa	MCC
dating	0.0185	0.0000	0.0000
dbworld	1.0000	1.0000	1.0000
default	0.6949	0.3263	0.3769
dementia	1.0000	1.0000	1.0000
deposit	0.7203	0.4180	0.4357
depressed	0.4542	0.0000	0.0000
dermatology	0.9429	0.9325	0.9325
desharnais	0.4678	0.3333	0.3638
df_final	0.7015	0.5062	0.5385
DIA	0.6622	0.3171	0.3233
diabetes-100k	0.4778	0.0000	0.0000
diagnosis	1.0000	1.0000	1.0000
diamonds	1.0000	1.0000	1.0000
diamonds_all	0.5864	0.5158	0.5244
dishonest	1.0000	1.0000	1.0000
dlbcl-nih	0.5714	0.1429	0.1429
dlbcl-stanford	0.8333	0.6154	0.6667
dna0.1%	0.4947	0.0000	0.0000
dota2	0.3452	0.0000	0.0000
drebin	0.3865	0.0000	0.0000
dropout	0.6855	0.6094	0.6149
ecoli	0.7367	0.8361	0.8372
ecoliCP-IM	1.0000	1.0000	1.0000
ecoliM	0.8032	0.6043	0.6062
ecoliMU	0.7649	0.5217	0.5285
ecoliOM	0.8514	0.6526	0.6960
ecommerce	0.2579	-0.0024	0.0000
euthyroid	0.8874	0.7723	0.7745
fakenews	0.3355	0.0000	0.0000
fbis-wc	0.7175	0.7350	0.7387
finance	1.0000	1.0000	1.0000
financial-risk	0.1137	0.0000	0.0000
flags	0.0659	0.0000	0.0000
forest	0.8284	0.8145	0.8149
gas	0.9940	0.9930	0.9930
gastrointestinal	0.6808	0.5817	0.5860
gender	0.3714	0.1177	0.1317
german	0.7271	0.4015	0.4493
gestures	0.1005	0.0000	0.0000
gina	0.3378	0.0000	0.0000
gisette	0.9635	0.9295	0.9364
glass	0.6880	0.5896	0.5960
glass-g2	0.8667	0.7333	0.7333
glassBWFP	0.8108	0.5532	0.6183
glassBWNFP	0.7857	0.5714	0.5714
glassContainers	0.4762	0.0000	0.0000
glassNW	0.8662	0.6957	0.7303
glassTableware	1.0000	1.0000	1.0000
GlaucomaM	0.7389	0.4751	0.4778
gli_85	0.4286	0.0000	0.0000
glioma	0.8333	0.7059	0.7500
glioma-grade	0.8922	0.7823	0.7843
green	0.4118	0.0000	0.0000
gsalc	1.0000	1.0000	1.0000
haberman	0.5793	0.1045	0.1410
hapt	0.0256	0.0000	0.0000
har	0.7845	0.7388	0.7401
harth10%	0.0517	0.0000	0.0000
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Dataset	F1-macro	Kappa	MCC
health-activity	0.2175	0.0000	0.0000
heart	0.8466	0.6932	0.6932
heart-c	0.9364	0.8649	0.8729
heart-failure	0.8261	0.6516	0.6521
heart-quantum	0.9423	0.8780	0.8847
hepatitis	0.8544	0.6667	0.7071
higher	0.1154	0.1195	0.1446
hinselmann	0.4444	0.0000	0.0000
hitters	0.9373	0.8745	0.8745
hiv1-proteasa	0.8746	0.7484	0.7491
hiva	0.4910	0.0000	0.0000
horse	0.4401	0.2632	0.2927
hotel-reservartions	0.4020	0.0000	0.0000
hr	0.4633	0.0000	0.0000
ht-sensor	0.1811	0.0000	0.0000
htru2	0.9389	0.8746	0.8776
hypothyroid	0.6659	0.8353	0.8363
immuno-therapy	0.8333	0.6087	0.6614
ionosphere	0.8990	0.7961	0.7980
iris	1.0000	1.0000	1.0000
irish	1.0000	1.0000	1.0000
isolet	0.9036	0.8829	0.8964
jm1	0.6381	0.1391	0.2234
javowels	0.9566	0.9533	0.9534
kc1-class-level-numericdefect	0.1556	0.0714	0.0732
kc1-class-level-top5percentDF	0.4828	0.0000	0.0000
kc2	0.5148	0.0231	0.0272
kdc-4007	0.0377	0.0000	0.0000
kddcup991%	0.0558	0.0000	0.0000
kidney	0.1778	0.0000	0.0000
kidney-disease	0.3846	0.0000	0.0000
la2s-wc	0.8618	0.8371	0.8380
labor	0.8537	0.6667	0.7071
leaf	0.8296	0.8452	0.8483
led24	0.5634	0.5455	0.5668
lenses	0.5714	0.5000	0.6124
letter	0.8464	0.8398	0.8399
linkage1%	0.9755	0.9498	0.9510
loan	0.9199	0.8397	0.8399
lrs	0.6525	0.8427	0.8514
lung_discrete	1.0000	1.0000	1.0000
lymphography	0.5520	0.6000	0.6181
lymphoma2	1.0000	1.0000	1.0000
machine-failure	0.8916	0.7825	0.7832
magic04	0.7572	0.5068	0.5141
malware	1.0000	1.0000	1.0000
mammography	0.8535	0.7064	0.7070
marketing	0.7888	0.5404	0.5721
mba	0.3706	0.0336	0.0684
mental-disorders	0.8537	0.7778	0.7926
messidor	0.7418	0.4789	0.4835
meter-A	0.7241	0.3333	0.4472
meter-B	1.0000	1.0000	1.0000
meter-C	0.8674	0.8435	0.8474
meter-D	0.6252	0.6828	0.6927
mfeat-fac	0.9755	0.9722	0.9723
mfeat-fou	0.8624	0.8444	0.8453
mfeat-kar	0.9767	0.9722	0.9725
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Dataset	F1-macro	Kappa	MCC
mfeat-mor	0.7126	0.6778	0.6787
mfeat-pix	0.9366	0.9278	0.9281
mfeat-zer	0.8421	0.8222	0.8225
mice-prot	1.0000	1.0000	1.0000
milk	0.9272	0.8858	0.8902
mines	0.4355	0.3738	0.3879
mobile	0.8205	0.8077	0.8083
monks-1	0.6203	0.2326	0.2406
monks-3	0.7323	0.4643	0.4646
mushroom	1.0000	1.0000	1.0000
music	0.0061	0.0000	0.0000
MUT_ci300400a_cdk_ECFP2	0.3682	0.0000	0.0000
MUT_ci300400a_cdk_ECFP4	0.3684	0.0000	0.0000
MUT_ci300400a_cdk_ECFP6	0.3679	0.0000	0.0000
MUT_ci300400a_cdk_ESTATE	0.7059	0.4118	0.4118
MUT_ci300400a_cdk_EXTENDED	0.3682	0.0000	0.0000
MUT_ci300400a_cdk_FCFP2	0.3684	0.0000	0.0000
MUT_ci300400a_cdk_FCFP4	0.3682	0.0000	0.0000
MUT_ci300400a_cdk_FCFP6	0.3682	0.0000	0.0000
MUT_ci300400a_cdk_MACCS	0.7517	0.4998	0.5033
MUT_ci300400a_cdk_PUBCHEM	0.3684	0.0000	0.0000
MUT_ci300400a_cdk_STANDARD	0.7684	0.5365	0.5369
MUT_ci300400a_rdkit_descriptors	0.7849	0.5693	0.5699
myocardial	0.2784	0.3719	0.4534
naticusdroid	0.9629	0.9257	0.9258
nci9	0.7895	0.8000	0.8281
ncRNA10%	0.0461	0.0000	0.0000
neo	0.6606	0.2372	0.2965
new-thyroid	1.0000	1.0000	1.0000
new-thyroidT	1.0000	1.0000	1.0000
newspop	0.6428	0.2850	0.2857
NHANES_age_prediction	0.9919	0.9837	0.9838
nomao	0.4167	0.0000	0.0000
nursery	0.8851	0.8990	0.8991
obesity	0.9419	0.9336	0.9337
obs	0.9006	0.7881	0.8016
oh0-wc	0.7277	0.7257	0.7284
oh10-wc	0.6588	0.6412	0.6426
oh15-wc	0.6115	0.5554	0.5574
oh5-wc	0.7912	0.7632	0.7664
olive	0.9509	0.9565	0.9569
optdigits	0.9814	0.9782	0.9783
orlraws10P	0.0182	0.0000	0.0000
ozone1hr	0.4909	0.0000	0.0000
p53-mutants10%	0.4992	0.0000	0.0000
parkinson	0.9741	0.9481	0.9482
particle	0.4184	0.0000	0.0000
pc1	0.4813	0.0000	0.0000
pcmac	0.3681	0.0000	0.0000
pediatric-leukemia	0.7203	0.7421	0.7578
pendigits	0.9803	0.9777	0.9778
period-10f	0.4000	0.0000	0.0000
persistence	0.7978	0.5924	0.5955
personalities	0.0074	0.0000	0.0000
pet-adoption	0.8992	0.7831	0.7981
phishing	0.9571	0.9140	0.9142
PhiUSIL10%	0.9996	0.9991	0.9991
phy	0.3346	0.0000	0.0000
Continued on next page			

Dataset	F1-macro	Kappa	MCC
pima	0.7074	0.3667	0.4111
pirvision	0.9839	0.9708	0.9709
placement	0.7928	0.5857	0.5857
plrx	0.4194	0.0000	0.0000
polya	0.7614	0.5195	0.5227
popularity	0.4110	0.1907	0.2247
post-operative	0.4000	0.0000	0.0000
postures	0.0692	0.0000	0.0000
pred-tox_mutagen_ref-desc	0.6494	0.2941	0.2988
prestige	0.8889	0.8302	0.8462
primary-tumor	0.3903	0.4568	0.4752
processed	0.4040	0.0000	0.0000
profb	0.7293	0.4586	0.4586
promoters	0.8077	0.5455	0.6124
puc-rio	0.0936	0.0000	0.0000
pufs-1281%	0.3334	0.0000	0.0000
pufs-6410%	0.3334	0.0000	0.0000
pulsar	0.9329	0.8604	0.8655
raisin	0.9232	0.8444	0.8463
rejafada	0.4910	0.0000	0.0000
relathe	1.0000	1.0000	1.0000
rice	0.9867	0.9733	0.9734
rocket	0.5945	0.1804	0.1884
RT_IOT2022	0.0724	0.0000	0.0000
satimage	0.8339	0.8289	0.8295
scadi	0.5455	0.6111	0.6288
schiller	0.4375	0.0000	0.0000
sclerosis	1.0000	1.0000	1.0000
secom	0.4817	-0.0118	0.0000
secondary_mushroom	0.3568	0.0000	0.0000
seeds	0.9553	0.9286	0.9317
segment	0.9569	0.9443	0.9447
segmentation	0.7927	0.5848	0.5854
segmentO	0.9913	0.9825	0.9827
seismic	0.4830	0.0000	0.0000
sens-2-gram	0.4648	0.0000	0.0000
sens-3-gram	0.4648	0.0000	0.0000
sens-4-gram	0.5692	0.1300	0.1298
sensorless	0.0151	0.0000	0.0000
shoppers	0.7406	0.4347	0.4724
sick	0.8172	0.6142	0.6313
sirtuin6	1.0000	1.0000	1.0000
smarket	0.9921	0.9840	0.9841
smk_can_187	0.3448	0.0000	0.0000
smoking	0.3876	0.0000	0.0000
soil_pollution	0.0988	-0.0336	0.0000
solar-flare	0.5817	0.6840	0.6892
sonar	0.5000	0.0000	0.0000
soybean	0.9781	0.9839	0.9841
spam-detection	0.8204	0.6315	0.6396
spambase	0.9111	0.8202	0.8221
spect	0.7657	0.5135	0.5294
spectf	0.7351	0.4235	0.4648
spectrometer	0.6230	0.7352	0.7402
squash-unstored	1.0000	1.0000	1.0000
startup	1.0000	1.0000	1.0000
steel_industry	0.7178	0.6183	0.6190
stellar	0.2486	0.0000	0.0000
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Dataset	F1-macro	Kappa	MCC
stock	0.8498	0.6905	0.6990
stockb	1.0000	1.0000	1.0000
streaming	0.7996	0.5992	0.5992
stress	1.0000	1.0000	1.0000
student-depression	0.3693	0.0000	0.0000
student-habits	0.1939	0.0782	0.0834
student-lifestyle	0.3534	0.3996	0.4107
student-weekend	0.2072	0.1256	0.1460
student-workday	0.1630	-0.0248	0.0000
studentap	0.4097	0.2500	0.2705
swarm_aligned	1.0000	1.0000	1.0000
swarm_flocking	0.9996	0.9992	0.9992
swarm_grouped	0.9933	0.9864	0.9933
tae	0.4820	0.2000	0.2056
telco-churn	0.8740	0.7472	0.7480
texture	1.0000	1.0000	1.0000
theorem	1.0000	1.0000	1.0000
thoracic	0.4598	0.0000	0.0000
Thyroid_Diff	0.9681	0.9343	0.9363
tis	0.4294	0.0000	0.0000
titanic	0.7833	0.5545	0.5660
tourist	0.1333	0.0000	0.0000
trains	1.0000	1.0000	1.0000
transfusion	0.4275	-0.0259	0.0000
tuandromd	0.9650	0.9298	0.9299
turkish	0.8404	0.7667	0.7791
tvnews	0.3881	0.0000	0.0000
ur3_cobotops_grip	0.4917	0.0000	0.0000
ur3_cobotops_stop	0.4906	0.0000	0.0000
urban	0.8010	0.7368	0.7426
ustilago10%	0.6745	0.0327	0.1313
vehicle	0.7441	0.6678	0.6779
vote	0.9307	0.8605	0.8615
vowel	0.6383	0.5667	0.5751
wap-wc	0.0179	0.0000	0.0000
warpar10p	1.0000	1.0000	1.0000
warppie10p	1.0000	1.0000	1.0000
waveform	0.8442	0.7660	0.7665
weather-related	0.0109	0.0000	0.0000
weight-lift	0.0886	0.0000	0.0000
white-clover	0.5000	0.0000	0.0000
wifi-loc	0.9950	0.9933	0.9934
wilt	0.8553	0.7016	0.7095
wine	0.9410	0.9006	0.9064
winequality-red	0.2680	0.3079	0.3124
winequality-white	0.2351	0.2121	0.2276
winnipeg10%	0.0592	0.0000	0.0000
wisc.bc	0.9817	0.9627	0.9633
yale	0.7652	0.7983	0.8051
yeast	0.4002	0.3823	0.3952
yeastCYT-POX	0.9047	0.7897	0.8078
yeastEXC	0.4914	-0.0109	0.0000
yeastME1	0.4932	0.0000	0.0000
yeastME2	0.4879	0.0000	0.0000
zip	0.0286	0.0000	0.0000

Table 22: Detailed results for LF

Dataset	F1-macro	Kappa	MCC
abalone	0.0899	0.0659	0.0670
abalone19	0.4982	0.0000	0.0000
accelerometer	0.7252	0.2900	0.3958
ads	0.8916	0.7831	0.7832
adult	0.7921	0.5817	0.5841
advanced-iot	1.0000	1.0000	1.0000
AID_1431	0.4706	-0.0389	0.0000
AID_1431_KlekotaRothFingerprinter	0.5481	0.0476	0.0843
AID_1431_MACCSFingerprinter	0.4706	-0.0389	0.0000
AID_1878	0.5327	0.0622	0.0644
AID_602330	0.4853	-0.0233	0.0000
AID_652128	0.3080	-0.0312	0.0000
AID1284red	0.5863	0.1628	0.1695
AID1608Morered	0.5513	0.0876	0.0972
AID1608red	0.4798	-0.0300	0.0000
AID362red	0.4965	0.0000	0.0000
AID373AID439red	0.4999	-0.0002	0.0000
AID373red	0.4997	0.0000	0.0000
AID456red	0.4992	0.0000	0.0000
AID604	0.9850	0.9696	0.9700
AID604AID644_AllRed	0.4997	0.0000	0.0000
AID687AID721red	0.4998	0.0000	0.0000
AID687red	0.4992	0.0000	0.0000
AID688red	0.4977	0.0000	0.0000
AID721morered	0.3571	-0.2857	0.0000
AID721red	0.4000	-0.1739	0.0000
AID746AID1284red	0.4997	-0.0003	0.0000
AID746red	0.6862	0.1939	0.2969
aids	0.8605	0.7123	0.7205
air_pollution	0.1354	-0.0014	0.0000
alcohol	0.6275	0.7418	0.7483
all-aml	1.0000	1.0000	1.0000
anneal	1.0000	1.0000	1.0000
antivirus	0.9554	0.9068	0.9108
anuran-f-b	1.0000	1.0000	1.0000
anxiety	0.1346	0.0228	0.0229
apple-quality	0.8675	0.7350	0.7351
aps-failure	0.9146	0.8245	0.8288
arabidopsis1%	0.4979	-0.0006	0.0000
arcene	0.7462	0.4898	0.4924
arrhythmia	0.2799	0.3995	0.4027
auction	0.9889	0.9776	0.9778
audiology	0.4015	0.8487	0.8544
audit-risk	0.9867	0.9731	0.9734
autism-adolescent	0.5681	0.1200	0.1336
autism-adult	1.0000	1.0000	1.0000
autism-child	0.9665	0.9308	0.9330
autos	0.7230	0.8676	0.8706
avila	0.9943	0.9938	0.9938
balance	0.6087	0.7397	0.7397
bank	0.7695	0.5380	0.5389
bankruptcy	1.0000	1.0000	1.0000
bio	0.9207	0.8335	0.8408
biodeg	0.8603	0.7200	0.7206
biomed	1.0000	1.0000	1.0000
Continued on next page			

Dataset	F1-macro	Kappa	MCC
bitcoin10%	0.1266	0.3924	0.4538
body-perf	0.7355	0.6448	0.6465
brain-tumor	0.4875	-0.0250	0.0000
breast-cancer	0.6500	0.3000	0.3000
breast-cancer-ma	0.5345	0.0678	0.0690
breast-tissue	0.7179	0.6733	0.6869
bridges	0.6767	0.8571	0.8697
bub12at310k-hg16-17	0.6435	0.0674	0.1611
cad	1.0000	1.0000	1.0000
cancer	1.0000	1.0000	1.0000
cancer-uae	0.3013	-0.0381	0.0000
car-insurance	0.8210	0.6419	0.6419
cardiotocography-nsp	0.8996	0.8507	0.8551
cardiovascular	0.7165	0.4329	0.4329
cargo2k	1.0000	1.0000	1.0000
cars	0.7690	0.6875	0.6910
ccds10%	0.6780	0.0665	0.1854
cdc_diabetes	0.4245	0.2183	0.2435
census	0.7872	0.5535	0.5706
cervical-B	0.8563	0.7088	0.7122
cervical-H	0.8269	0.6485	0.6530
cervical-S	0.8890	0.7514	0.7758
children-anemia	0.9390	0.9138	0.9145
chrom19	0.9482	0.8946	0.8962
chrom211%	0.4998	0.0000	0.0000
churn	0.7597	0.4992	0.5169
cjs	1.0000	1.0000	1.0000
ckd	1.0000	1.0000	1.0000
clave	0.7133	0.7363	0.7407
cll_sub_111	0.6369	0.3023	0.3061
cmc	0.5168	0.2826	0.2845
cnae-9	0.7602	0.7188	0.7218
codon_usage	0.7801	0.9204	0.9209
coil20	0.9291	0.9196	0.9202
college	0.9018	0.8036	0.8036
collins	0.4570	0.4929	0.4987
colon-tumor	0.6604	0.1818	0.3162
colposcopies-1	0.6184	0.2368	0.2368
colposcopies-2	0.7361	0.4587	0.4715
colposcopies-4	0.5964	0.1920	0.1927
colposcopies-5	0.4423	-0.0610	0.0000
colposcopies-c	0.6919	0.3741	0.3825
column-2c	0.8931	0.7842	0.7863
column-3c	0.7853	0.7359	0.7400
connect-4	1.0000	1.0000	1.0000
coupon	0.7760	0.5508	0.5519
covtype	0.9529	0.9561	0.9561
covtypeCD	0.9852	0.9703	0.9704
covtypeT	0.9457	0.8909	0.8914
crabs	1.0000	1.0000	1.0000
creditcard_trans	0.9347	0.8634	0.8691
crowdsourced	0.8831	0.9000	0.9007
cryotherapy	0.9000	0.7805	0.8000
cultivars	0.3384	0.4538	0.4608
cybersecurity	0.1425	-0.0330	0.0000
cyclopentane	0.7000	0.4000	0.4000
cylinder-bands	0.3859	-0.2063	0.0000
datatrieve	0.4583	-0.0833	0.0000
Continued on next page			

Dataset	F1-macro	Kappa	MCC
dating	0.0979	-0.0023	0.0000
dbworld	0.6818	0.2222	0.3536
default	0.7134	0.4046	0.4235
dementia	1.0000	1.0000	1.0000
deposit	0.7573	0.5101	0.5139
depressed	0.5942	0.0997	0.1508
dermatology	0.9429	0.9325	0.9325
desharnais	0.6525	0.4146	0.4499
df_final	0.7015	0.5062	0.5385
DIA	0.6593	0.3182	0.3185
diabetes-100k	0.8906	0.7624	0.7796
diagnosis	1.0000	1.0000	1.0000
diamonds	1.0000	1.0000	1.0000
diamonds_all	0.7868	0.7044	0.7066
dishonest	1.0000	1.0000	1.0000
dlbcl-nih	0.5353	0.0704	0.0707
dlbcl-stanford	0.8333	0.6154	0.6667
dna0.1%	0.4993	0.0000	0.0000
dota2	0.5955	0.1903	0.1909
drebin	0.9921	0.9843	0.9843
dropout	0.6655	0.5849	0.5914
ecoli	0.5038	0.7542	0.7598
ecoliCP-IM	1.0000	1.0000	1.0000
ecoliM	0.9175	0.8350	0.8350
ecoliMU	0.8167	0.6333	0.6333
ecoliOM	0.8514	0.6526	0.6960
ecommerce	0.2699	0.0264	0.0264
euthyroid	0.9166	0.8318	0.8331
fakenews	0.5448	0.0895	0.0896
fbis-wc	0.2988	0.2323	0.2363
finance	0.8221	0.6394	0.6441
financial-risk	0.7002	0.8733	0.8744
flags	0.2941	0.4118	0.4224
forest	0.8815	0.8661	0.8731
gas	0.9924	0.9913	0.9913
gastrointestinal	0.6808	0.5817	0.5860
gender	0.4275	0.1050	0.1147
german	0.7394	0.4307	0.4748
gestures	0.9412	0.9212	0.9215
gina	0.8797	0.7575	0.7593
gisette	0.9243	0.8486	0.8486
glass	0.7135	0.6635	0.6658
glass-g2	0.8730	0.7143	0.7454
glassBWFP	0.8568	0.6736	0.7126
glassBWNFP	0.7857	0.5714	0.5714
glassContainers	1.0000	1.0000	1.0000
glassNW	1.0000	1.0000	1.0000
glassTableware	1.0000	1.0000	1.0000
GlaucomaM	0.7889	0.5778	0.5778
gli_85	1.0000	1.0000	1.0000
glioma	0.6250	0.7059	0.7500
glioma-grade	0.8547	0.7085	0.7093
green	0.4553	-0.0870	0.0000
gsalc	0.9167	0.8657	0.8788
haberman	0.6323	0.2593	0.2638
hapt	0.8882	0.9708	0.9708
har	0.9949	0.9942	0.9942
harth10%	0.6706	0.8515	0.8525
Continued on next page			

Dataset	F1-macro	Kappa	MCC
health-activity	0.2175	0.0000	0.0000
heart	0.8465	0.6842	0.6929
heart-c	0.8374	0.6606	0.6748
heart-failure	0.9861	0.9720	0.9721
heart-quantum	0.9249	0.8387	0.8498
hepatitis	0.8544	0.6667	0.7071
higher	0.2679	0.2364	0.2787
hinselmann	0.4444	0.0000	0.0000
hitters	0.8590	0.6800	0.7177
hiv1-proteasa	0.8155	0.6195	0.6298
hiva	0.5462	0.0765	0.0851
horse	0.5632	0.3105	0.3173
hotel-reservartions	0.9035	0.8059	0.8069
hr	0.4592	-0.0261	0.0000
ht-sensor	1.0000	0.9999	0.9999
htru2	0.9345	0.8681	0.8689
hypothyroid	0.7387	0.9684	0.9684
immuno-therapy	0.8333	0.6087	0.6614
ionosphere	0.8642	0.7211	0.7282
iris	0.9333	0.8993	0.9054
irish	1.0000	1.0000	1.0000
isolet	0.9282	0.9239	0.9241
jm1	0.6840	0.3346	0.3611
javowels	0.9873	0.9863	0.9864
kc1-class-level-numericdefect	0.0294	0.0820	0.0856
kc1-class-level-top5percentDF	0.4444	-0.0976	0.0000
kc2	0.6307	0.2589	0.2609
kdc-4007	0.1339	0.0179	0.0183
kddcup991%	0.5113	0.9979	0.9979
kidney	0.1778	0.0000	0.0000
kidney-disease	1.0000	1.0000	1.0000
la2s-wc	0.7700	0.7260	0.7277
labor	0.8537	0.6667	0.7071
leaf	0.4494	0.7838	0.7896
led24	0.6222	0.6067	0.6154
lenses	1.0000	1.0000	1.0000
letter	0.9601	0.9584	0.9584
linkage1%	0.9879	0.9755	0.9758
loan	0.9876	0.9749	0.9752
lrs	0.4276	0.7394	0.7464
lung_discrete	0.7143	1.0000	1.0000
lymphography	0.4140	0.6000	0.6181
lymphoma2	0.6667	1.0000	1.0000
machine-failure	0.9019	0.8035	0.8037
magic04	0.8718	0.7413	0.7437
malware	1.0000	1.0000	1.0000
mammography	0.7948	0.5850	0.5895
marketing	0.7901	0.5542	0.5766
mba	0.3918	0.1608	0.1667
mental-disorders	0.8537	0.7778	0.7926
messidor	0.6885	0.3765	0.3770
meter-A	1.0000	1.0000	1.0000
meter-B	1.0000	1.0000	1.0000
meter-C	0.6702	0.7621	0.7804
meter-D	0.8711	0.8435	0.8512
mfeat-fac	0.9951	0.9944	0.9945
mfeat-fou	0.8053	0.7833	0.7838
mfeat-kar	0.9754	0.9722	0.9723
Continued on next page			

Dataset	F1-macro	Kappa	MCC
mfeat-mor	0.7014	0.6667	0.6670
mfeat-pix	0.9801	0.9778	0.9778
mfeat-zer	0.8106	0.7889	0.7891
mice-prot	1.0000	1.0000	1.0000
milk	1.0000	1.0000	1.0000
mines	0.4986	0.4093	0.4116
mobile	0.8963	0.8861	0.8865
monks-1	1.0000	1.0000	1.0000
monks-3	0.9653	0.9283	0.9307
mushroom	1.0000	1.0000	1.0000
music	0.5535	0.3944	0.3969
MUT_ci300400a_cdk_ECFP2	0.8175	0.6351	0.6351
MUT_ci300400a_cdk_ECFP4	0.8267	0.6528	0.6533
MUT_ci300400a_cdk_ECFP6	0.7888	0.5736	0.5775
MUT_ci300400a_cdk_ESTATE	0.7733	0.5434	0.5465
MUT_ci300400a_cdk_EXTENDED	0.8466	0.6930	0.6932
MUT_ci300400a_cdk_FCFP2	0.8235	0.6470	0.6470
MUT_ci300400a_cdk_FCFP4	0.8254	0.6505	0.6508
MUT_ci300400a_cdk_FCFP6	0.8334	0.6667	0.6668
MUT_ci300400a_cdk_MACCS	0.8578	0.7154	0.7156
MUT_ci300400a_cdk_PUBCHEM	0.8676	0.7346	0.7352
MUT_ci300400a_cdk_STANDARD	0.8286	0.6572	0.6572
MUT_ci300400a_rdkit_descriptors	0.8689	0.7377	0.7379
myocardial	0.3822	0.4447	0.5240
naticusdroid	0.9727	0.9454	0.9455
nci9	0.6667	1.0000	1.0000
ncRNA10%	0.7169	0.8435	0.8456
neo	0.7461	0.4810	0.4900
new-thyroid	1.0000	1.0000	1.0000
new-thyroidT	1.0000	1.0000	1.0000
newspop	0.6724	0.3444	0.3448
NHANES_age_prediction	1.0000	1.0000	1.0000
nomao	0.9636	0.9271	0.9272
nursery	0.7986	0.9966	0.9966
obesity	0.9287	0.9170	0.9174
obs	1.0000	1.0000	1.0000
oh0-wc	0.8688	0.8300	0.8329
oh10-wc	0.6718	0.6430	0.6445
oh15-wc	0.6566	0.6540	0.6567
oh5-wc	0.7532	0.7138	0.7159
olive	0.9554	0.9565	0.9572
optdigits	0.9661	0.9604	0.9605
orlraws10P	1.0000	1.0000	1.0000
ozone1hr	0.4899	-0.0072	0.0000
p53-mutants10%	0.4935	-0.0056	0.0000
parkinson	0.9915	0.9828	0.9830
particle	0.9229	0.8458	0.8458
pc1	0.6396	0.2671	0.2754
pcmac	0.4896	-0.0207	0.0000
pediatric-leukemia	0.7905	0.8180	0.8262
pendigits	0.9928	0.9919	0.9919
period-10f	0.5000	0.0000	0.0000
persistence	0.8139	0.6248	0.6277
personalities	0.9752	0.9735	0.9735
pet-adoption	0.9432	0.8843	0.8864
phishing	0.9743	0.9484	0.9486
PhiUSIL10%	0.9961	0.9922	0.9922
phy	0.7224	0.4447	0.4448
Continued on next page			

Dataset	F1-macro	Kappa	MCC
pima	0.7176	0.4154	0.4344
pirvision	0.9977	0.9959	0.9959
placement	0.7903	0.5799	0.5807
plrx	0.4194	0.0000	0.0000
polya	0.7748	0.5458	0.5494
popularity	0.4815	0.2667	0.2873
post-operative	0.2667	0.0000	0.0000
postures	0.9930	0.9914	0.9914
pred-tox_mutagen_ref-desc	0.7207	0.4412	0.4414
prestige	0.8889	0.8302	0.8462
primary-tumor	0.2112	0.3340	0.3434
processed	1.0000	1.0000	1.0000
profb	0.7691	0.5370	0.5382
promoters	0.6784	0.3478	0.3563
puc-rio	0.9936	0.9952	0.9952
pufs-1281%	0.4977	-0.0047	0.0000
pufs-6410%	0.4992	-0.0017	0.0000
pulsar	0.9560	0.9103	0.9120
raisin	0.8786	0.7556	0.7572
rejabatada	0.4910	0.0000	0.0000
relathe	1.0000	1.0000	1.0000
rice	0.9872	0.9744	0.9745
rocket	0.7398	0.4795	0.4796
RT_IOT2022	0.9767	0.9963	0.9963
satimage	0.8953	0.8885	0.8894
scadi	0.3896	0.6216	0.6574
schiller	0.5303	0.0526	0.0598
sclerosis	1.0000	1.0000	1.0000
secom	0.5353	0.0685	0.0697
secondary_mushroom	0.9998	0.9997	0.9997
seeds	0.9553	0.9286	0.9317
segment	0.9774	0.9696	0.9700
segmentation	0.8431	0.6861	0.6861
segmentO	1.0000	1.0000	1.0000
seismic	0.6083	0.0927	0.1547
sens-2-gram	0.6802	0.1842	0.2940
sens-3-gram	0.5807	0.0754	0.1204
sens-4-gram	0.5991	0.1659	0.1872
sensorless	0.9971	0.9968	0.9968
shoppers	0.7866	0.5684	0.5726
sick	0.9205	0.8347	0.8406
sirtuin6	1.0000	1.0000	1.0000
smarket	0.9921	0.9840	0.9841
smk_can_187	0.8427	0.6816	0.6854
smoking	0.8353	0.6702	0.6706
soil_pollution	0.2410	0.0483	0.0487
solar-flare	0.6699	0.7066	0.7099
sonar	0.6508	0.3000	0.3015
soybean	0.9725	0.9677	0.9682
spam-detection	0.8543	0.7084	0.7085
spambase	0.9453	0.8905	0.8906
spect	0.6021	0.2025	0.2039
spectf	0.8552	0.7021	0.7100
spectrometer	0.2513	0.5202	0.5260
squash-unstored	0.5556	0.6154	0.6667
startup	1.0000	1.0000	1.0000
steel_industry	0.9003	0.8723	0.8723
stellar	0.9739	0.9596	0.9597
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Dataset	F1-macro	Kappa	MCC
stock	0.8892	0.7717	0.7780
stockb	0.9956	0.9934	0.9934
streaming	0.9960	0.9919	0.9919
stress	1.0000	1.0000	1.0000
student-depression	0.8345	0.6672	0.6690
student-habits	0.3079	0.0267	0.0280
student-lifestyle	0.3353	0.3093	0.3126
student-weekend	0.1720	0.0248	0.0251
student-workday	0.2472	0.2289	0.2587
studentap	0.4553	0.1574	0.1589
swarm_aligned	1.0000	1.0000	1.0000
swarm_flocking	1.0000	1.0000	1.0000
swarm_grouped	1.0000	1.0000	1.0000
tae	0.5415	0.3000	0.3020
telco-churn	0.8821	0.7613	0.7642
texture	0.9913	0.9900	0.9900
theorem	1.0000	1.0000	1.0000
thoracic	0.5444	0.0824	0.0866
Thyroid_Diff	0.9681	0.9343	0.9363
tis	0.8905	0.7782	0.7809
titanic	0.7934	0.5163	0.5813
tourist	0.4125	0.4667	0.4885
trains	0.3333	0.0000	0.0000
transfusion	0.4950	-0.0097	0.0000
tuandromd	0.9790	0.9579	0.9580
turkish	0.8563	0.8000	0.8034
tvnews	0.9587	0.9169	0.9173
ur3_cobotops_grip	0.7604	0.4282	0.4972
ur3_cobotops_stop	0.7996	0.5790	0.5955
urban	0.8374	0.7728	0.7742
ustilago10%	0.5307	0.0736	0.0746
vehicle	0.7386	0.6952	0.6980
vote	0.9307	0.8605	0.8615
vowel	0.5968	0.5444	0.5520
wap-wc	0.5979	0.7631	0.7647
warpar10p	1.0000	1.0000	1.0000
warppie10p	1.0000	1.0000	1.0000
waveform	0.8420	0.7630	0.7630
weather-related	0.9816	0.9760	0.9761
weight-lift	0.9992	0.9990	0.9990
white-clover	0.1250	0.0000	0.0000
wifi-loc	0.9950	0.9933	0.9934
wilt	0.9195	0.8369	0.8389
wine	1.0000	1.0000	1.0000
winequality-red	0.3573	0.5524	0.5558
winequality-white	0.4407	0.5371	0.5413
winnipeg10%	1.0000	1.0000	0.9798
wisc.bc	0.9817	0.9627	0.9633
yale	0.7257	0.7322	0.7480
yeast	0.4065	0.4736	0.4802
yeastCYT-POX	0.9047	0.7897	0.8078
yeastEXC	0.6366	0.2688	0.2717
yeastME1	0.8546	0.6605	0.7022
yeastME2	0.7170	0.3825	0.4197
zip	0.9403	0.9385	0.9386

Table 23: Detailed results for LMT

Dataset	F1-macro	Kappa	MCC
abalone	0.1496	0.1251	0.1299
abalone19	0.4982	0.0000	0.0000
accelerometer	0.6895	0.3224	0.3605
ads	0.4623	0.0000	0.0000
adult	0.4328	0.0000	0.0000
advanced-iot	0.9937	1.0000	1.0000
AID_1431	0.4772	0.0000	0.0000
AID_1431_KlekotaRothFingerprinter	0.4772	0.0000	0.0000
AID_1431_MACCSFingerprinter	0.4772	0.0000	0.0000
AID_1878	0.4503	0.0000	0.0000
AID_602330	0.4894	0.0000	0.0000
AID_652128	0.3118	0.0000	0.0000
AID1284red	0.4627	0.0000	0.0000
AID1608Morered	0.4824	0.0000	0.0000
AID1608red	0.4850	0.0000	0.0000
AID362red	0.4965	0.0000	0.0000
AID373AID439red	0.0002	0.0000	0.0000
AID373red	0.0010	0.0000	0.0000
AID456red	0.4992	0.0000	0.0000
AID604	0.0035	0.0000	0.0000
AID604AID644_AllRed	0.4997	0.0000	0.0000
AID687AID721red	0.0006	0.0000	0.0000
AID687red	0.0030	0.0000	0.0000
AID688red	0.4977	0.0000	0.0000
AID721morered	0.4375	0.0000	0.0000
AID721red	0.4375	0.0000	0.0000
AID746AID1284red	0.0010	0.0000	0.0000
AID746red	0.0060	0.0000	0.0000
aids	0.9087	0.8095	0.8171
air_pollution	0.0826	0.0000	0.0000
alcohol	0.6181	0.6314	0.6321
all-aml	1.0000	1.0000	1.0000
anneal	0.9872	0.9766	0.9769
antivirus	1.0000	1.0000	1.0000
anuran-f-b	0.9562	0.9084	0.9122
anxiety	0.1386	0.0341	0.0342
apple-quality	0.8350	0.6700	0.6700
aps-failure	0.4955	0.0000	0.0000
arabidopsis1%	0.0079	0.0000	0.0000
arcene	0.8424	0.6809	0.6847
arrhythmia	0.6827	0.6330	0.6443
auction	0.9777	0.9544	0.9554
audiology	0.9735	0.9471	0.9494
audit-risk	1.0000	1.0000	1.0000
autism-adolescent	0.2667	0.0000	0.0000
autism-adult	0.4215	0.0000	0.0000
autism-child	1.0000	1.0000	1.0000
autos	0.8062	0.7342	0.7470
avila	0.9829	0.9844	0.9844
balance	0.8228	0.8500	0.8544
bank	0.7663	0.5289	0.5320
bankruptcy	1.0000	1.0000	1.0000
bio	0.4978	0.0000	0.0000
biodeg	0.8470	0.6927	0.6940
biomed	1.0000	1.0000	1.0000
Continued on next page			

Dataset	F1-macro	Kappa	MCC
bitcoin10%	0.0006	0.0000	0.0000
body-perf	0.7100	0.6119	0.6142
brain-tumor	0.3340	0.0000	0.0000
breast-cancer	0.7795	0.4615	0.5477
breast-cancer-ma	0.3529	0.0000	0.0000
breast-tissue	0.6620	0.5686	0.5918
bridges	0.6420	0.6774	0.7246
bub12at310k-hg16-17	0.4762	0.0000	0.0000
cad	1.0000	1.0000	1.0000
cancer	0.9841	0.9677	0.9682
cancer-uae	0.2201	0.0000	0.0000
car-insurance	0.8088	0.6025	0.6142
cardiotocography-nsp	0.8692	0.7964	0.8005
cardiovascular	0.3335	0.0000	0.0000
cargo2k	1.0000	1.0000	1.0000
cars	0.7547	0.6740	0.6812
ccds10%	0.0370	0.0000	0.0000
cdc_diabetes	0.3048	0.0000	0.0000
census	0.4835	0.0000	0.0000
cervical-B	0.8563	0.7088	0.7122
cervical-H	0.8269	0.6485	0.6530
cervical-S	0.8890	0.7514	0.7758
children-anemia	0.1075	0.0000	0.0000
chrom19	0.4998	0.0000	0.0000
chrom211%	0.5038	0.0000	0.0000
churn	0.7545	0.4834	0.5055
cjs	1.0000	1.0000	1.0000
ckd	0.3939	0.0000	0.0000
clave	0.7003	0.7400	0.7406
cll_sub_111	0.8028	0.6000	0.6068
cmc	0.5726	0.3578	0.3592
cnae-9	0.9650	0.9583	0.9589
codon_usage	0.7542	0.8937	0.8939
coil20	1.0000	1.0000	1.0000
college	0.9018	0.8036	0.8036
collins	1.0000	1.0000	1.0000
colon-tumor	0.7500	0.4000	0.5000
colposcopies-1	0.5499	0.0963	0.0994
colposcopies-2	0.5521	0.0807	0.0995
colposcopies-4	0.6667	0.3165	0.3310
colposcopies-5	0.4777	-0.0432	0.0000
colposcopies-c	0.6866	0.3715	0.3730
column-2c	0.8931	0.7842	0.7863
column-3c	0.7395	0.6853	0.6865
connect-4	0.0068	0.0000	0.0000
coupon	0.7006	0.3995	0.4011
covtype	0.0763	0.0000	0.0000
covtypeCD	0.9789	0.9577	0.9578
covtypeT	0.9375	0.8744	0.8750
crabs	1.0000	1.0000	1.0000
creditcard_trans	0.4996	0.0000	0.0000
crowdsourced	0.8025	0.8295	0.8298
cryotherapy	0.7404	0.3721	0.4781
cultivars	0.3307	0.4538	0.4603
cybersecurity	0.1738	0.0076	0.0076
cyclopentane	0.6181	0.2241	0.2358
cylinder-bands	0.7324	0.4514	0.4644
datatrieve	0.4800	0.0000	0.0000
Continued on next page			

Dataset	F1-macro	Kappa	MCC
dating	0.0181	0.0000	0.0000
dbworld	1.0000	1.0000	1.0000
default	0.7198	0.4107	0.4351
dementia	1.0000	1.0000	1.0000
deposit	0.7372	0.4647	0.4725
depressed	0.4542	0.0000	0.0000
dermatology	0.9249	0.8991	0.8999
desharnais	0.8497	0.6000	0.6677
df_final	0.5319	0.5000	0.5499
DIA	0.7408	0.4762	0.4811
diabetes-100k	0.4778	0.0000	0.0000
diagnosis	1.0000	1.0000	1.0000
diamonds	1.0000	1.0000	1.0000
diamonds_all	0.7919	0.7112	0.7137
dishonest	1.0000	1.0000	1.0000
dlbcl-nih	0.7536	0.5000	0.5071
dlbcl-stanford	1.0000	1.0000	1.0000
dna0.1%	0.5444	0.1007	0.1043
dota2	0.3210	0.0000	0.0000
drebin	0.2700	0.0000	0.0000
dropout	0.6937	0.6191	0.6234
ecoli	0.7465	0.8359	0.8380
ecoliCP-IM	1.0000	1.0000	1.0000
ecoliM	0.9175	0.8350	0.8350
ecoliMU	0.7292	0.4359	0.4543
ecoliOM	0.8514	0.6526	0.6960
ecommerce	0.2924	0.0540	0.0542
euthyroid	0.9064	0.8103	0.8126
fakenews	0.5124	0.0248	0.0248
fbis-wc	0.0042	0.0000	0.0000
finance	0.6609	0.3081	0.3214
financial-risk	0.0692	0.0000	0.0000
flags	0.0476	0.0000	0.0000
forest	0.9172	0.8937	0.8974
gas	0.9950	0.9939	0.9939
gastrointestinal	0.5906	0.3962	0.4039
gender	0.3807	0.1449	0.1583
german	0.6713	0.3120	0.3394
gestures	0.0997	0.0000	0.0000
gina	0.3288	0.0000	0.0000
gisette	0.9703	0.9432	0.9345
glass	0.7115	0.6087	0.6283
glass-g2	0.8667	0.7333	0.7333
glassBWFP	0.7981	0.5962	0.5962
glassBWNFP	0.7427	0.4828	0.4854
glassContainers	1.0000	1.0000	1.0000
glassNW	0.9340	0.8591	0.8677
glassTableware	1.0000	1.0000	1.0000
GlaucomaM	0.7889	0.5778	0.5778
gli_85	0.2000	0.0000	0.0000
glioma	0.8333	0.7059	0.7500
glioma-grade	0.9055	0.8072	0.8110
green	0.6098	0.2105	0.2182
gsalc	0.9167	0.8657	0.8788
haberman	0.5793	0.1045	0.1410
hapt	0.0012	0.0000	0.0000
har	0.9863	0.9832	0.9832
harth10%	0.0096	0.0000	0.0000
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Dataset	F1-macro	Kappa	MCC
health-activity	0.2175	0.0000	0.0000
heart	0.8466	0.6932	0.6932
heart-c	0.8683	0.7297	0.7365
heart-failure	0.9744	0.9485	0.9487
heart-quantum	0.9423	0.8780	0.8847
hepatitis	0.8544	0.6667	0.7071
higher	0.1273	0.0778	0.0818
hinselmann	0.6875	0.3750	0.3750
hitters	0.9373	0.8745	0.8745
hiv1-proteasa	0.8491	0.6944	0.6980
hiva	0.6178	0.1856	0.2156
horse	0.6077	0.3386	0.3405
hotel-reservartions	0.4020	0.0000	0.0000
hr	0.4633	0.0000	0.0000
ht-sensor	0.1650	0.0000	0.0000
htru2	0.9426	0.8832	0.8852
hypothyroid	0.7255	0.9505	0.9518
immuno-therapy	0.6786	0.3571	0.3571
ionosphere	0.9346	0.8606	0.8690
iris	0.9333	0.8993	0.9054
irish	1.0000	1.0000	1.0000
isolet	0.9310	0.9474	0.9303
jm1	0.6043	0.1164	0.1727
javowels	0.9707	0.9681	0.9682
kc1-class-level-numericdefect	0.3733	0.3500	0.4677
kc1-class-level-top5percentDF	0.4444	-0.0976	0.0000
kc2	0.6298	0.2394	0.2551
kdc-4007	0.0345	0.0000	0.0000
kddcup991%	0.0253	0.0000	0.0000
kidney	0.1778	0.0000	0.0000
kidney-disease	0.3846	0.0000	0.0000
la2s-wc	0.8509	0.8244	0.8248
labor	0.8537	0.6667	0.7071
leaf	0.8434	0.8149	0.8208
led24	0.6573	0.6045	0.6080
lenses	1.0000	1.0000	1.0000
letter	0.9360	0.9339	0.9340
linkage1%	1.0000	1.0000	1.0000
loan	0.9901	0.9800	0.9802
lrs	0.6579	0.8418	0.8521
lung_discrete	1.0000	1.0000	1.0000
lymphography	0.9107	0.7500	0.7779
lymphoma2	0.7895	0.8500	0.8645
machine-failure	0.8916	0.7825	0.7832
magic04	0.8562	0.7084	0.7124
malware	1.0000	1.0000	1.0000
mammography	0.8221	0.6440	0.6441
marketing	0.7887	0.5258	0.5694
mba	0.4031	0.1702	0.1924
mental-disorders	0.8537	0.7778	0.7926
messidor	0.6735	0.3469	0.3469
meter-A	0.8000	0.5294	0.6000
meter-B	1.0000	1.0000	1.0000
meter-C	0.9583	0.9234	0.9274
meter-D	0.8730	0.8442	0.8480
mfeat-fac	0.9804	0.9778	0.9779
mfeat-fou	0.8327	0.8111	0.8114
mfeat-kar	0.9659	0.9611	0.9613
Continued on next page			

Dataset	F1-macro	Kappa	MCC
mfeat-mor	0.7241	0.6889	0.6901
mfeat-pix	0.9615	0.9556	0.9559
mfeat-zer	0.7996	0.7778	0.7783
mice-prot	1.0000	1.0000	1.0000
milk	1.0000	1.0000	1.0000
mines	0.6638	0.5935	0.5981
mobile	0.8695	0.8576	0.8580
monks-1	1.0000	1.0000	1.0000
monks-3	0.9824	0.9642	0.9648
mushroom	1.0000	1.0000	1.0000
music	0.4912	0.3605	0.3783
MUT_ci300400a_cdk_ECFP2	0.2944	0.0000	0.0000
MUT_ci300400a_cdk_ECFP4	0.2942	0.0000	0.0000
MUT_ci300400a_cdk_ECFP6	0.2948	0.0000	0.0000
MUT_ci300400a_cdk_ESTATE	0.7488	0.4966	0.4977
MUT_ci300400a_cdk_EXTENDED	0.2944	0.0000	0.0000
MUT_ci300400a_cdk_FCFP2	0.2942	0.0000	0.0000
MUT_ci300400a_cdk_FCFP4	0.2944	0.0000	0.0000
MUT_ci300400a_cdk_FCFP6	0.2944	0.0000	0.0000
MUT_ci300400a_cdk_MACCS	0.8365	0.6727	0.6731
MUT_ci300400a_cdk_PUBCHEM	0.2942	0.0000	0.0000
MUT_ci300400a_cdk_STANDARD	0.8267	0.6528	0.6533
MUT_ci300400a_rdkit_descriptors	0.8122	0.6239	0.6243
myocardial	0.3102	0.3867	0.4911
naticusdroid	0.9707	0.9414	0.9414
nci9	0.2667	0.2000	0.2236
ncRNA10%	0.0461	0.0000	0.0000
neo	0.4722	0.0000	0.0000
new-thyroid	1.0000	1.0000	1.0000
new-thyroidT	1.0000	1.0000	1.0000
newspop	0.6557	0.3102	0.3114
NHANES_age_prediction	1.0000	1.0000	1.0000
nomao	0.4167	0.0000	0.0000
nursery	0.9988	0.9977	0.9977
obesity	0.9324	0.9225	0.9226
obs	1.0000	1.0000	1.0000
oh0-wc	0.9539	0.9433	0.9442
oh10-wc	0.7162	0.6857	0.6873
oh15-wc	0.8097	0.8021	0.8033
oh5-wc	0.7902	0.7518	0.7546
olive	0.9385	0.9343	0.9362
optdigits	0.9694	0.9644	0.9645
orlraws10P	0.0182	0.0000	0.0000
ozone1hr	0.4909	0.0000	0.0000
p53-mutants10%	0.4992	0.0000	0.0000
parkinson	0.9914	0.9827	0.9828
particle	0.2191	0.0000	0.0000
pc1	0.4789	-0.0163	0.0000
pcmac	0.2945	0.0000	0.0000
pediatric-leukemia	0.9371	0.8924	0.8934
pendigits	0.9825	0.9808	0.9808
period-10f	0.3415	-0.2857	0.0000
persistence	0.7947	0.5866	0.5893
personalities	0.0074	0.0000	0.0000
pet-adoption	0.9376	0.8722	0.8751
phishing	0.9745	0.9488	0.9489
PhiUSIL10%	1.0000	1.0000	1.0000
phy	0.3346	0.0000	0.0000
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Dataset	F1-macro	Kappa	MCC
pima	0.6735	0.3063	0.3435
pirvision	0.9954	0.9917	0.9917
placement	0.7924	0.5848	0.5849
plrx	0.4194	0.0000	0.0000
polya	0.7499	0.4923	0.4994
popularity	0.4225	0.2358	0.2581
post-operative	0.4000	0.0000	0.0000
postures	0.0690	0.0000	0.0000
pred-tox_mutagen_ref-desc	0.6030	0.2059	0.2060
prestige	0.8805	0.8200	0.8383
primary-tumor	0.3397	0.3516	0.3680
processed	0.4040	0.0000	0.0000
profb	0.7493	0.4983	0.4985
promoters	0.7041	0.4000	0.4082
puc-rio	0.0936	0.0000	0.0000
pufs-1281%	0.3333	0.0000	0.0000
pufs-6410%	0.3334	0.0000	0.0000
pulsar	0.9485	0.8950	0.8969
raisin	0.9223	0.8444	0.8447
rejabatada	1.0000	1.0000	1.0000
relathe	1.0000	1.0000	1.0000
rice	0.9873	0.9744	0.9745
rocket	0.6312	0.2624	0.2625
RT_IOT2022	0.0054	0.0000	0.0000
satimage	0.8681	0.8618	0.8620
scadi	0.6984	0.6316	0.6860
schiller	0.8333	0.6087	0.6614
sclerosis	1.0000	1.0000	1.0000
secom	0.4834	0.0000	0.0000
secondary_mushroom	0.3568	0.0000	0.0000
seeds	0.9553	0.9286	0.9317
segment	0.9735	0.9646	0.9649
segmentation	0.8449	0.6860	0.6898
segmentO	1.0000	1.0000	1.0000
seismic	0.4830	0.0000	0.0000
sens-2-gram	0.4648	0.0000	0.0000
sens-3-gram	0.4648	0.0000	0.0000
sens-4-gram	0.5927	0.1737	0.1768
sensorless	0.0151	0.0000	0.0000
shoppers	0.7974	0.5905	0.5944
sick	0.9442	0.8819	0.8881
sirtuin6	0.8000	0.6000	0.6000
smarket	0.9921	0.9840	0.9841
smk_can_187	0.3214	0.0000	0.0000
smoking	0.3876	0.0000	0.0000
soil_pollution	0.1468	-0.0664	0.0000
solar-flare	0.6867	0.6849	0.6886
sonar	0.5000	0.0000	0.0000
soybean	0.9725	0.9677	0.9682
spam-detection	0.8671	0.7340	0.7341
spambase	0.9273	0.8545	0.8545
spect	0.6403	0.2703	0.2786
spectf	0.8600	0.7200	0.7200
spectrometer	0.5615	0.6536	0.6575
squash-unstored	0.8333	0.6154	0.6667
startup	1.0000	1.0000	1.0000
steel_industry	0.8825	0.8487	0.8488
stellar	0.2486	0.0000	0.0000
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Dataset	F1-macro	Kappa	MCC
stock	0.8092	0.6067	0.6172
stockb	0.9956	0.9934	0.9934
streaming	0.9980	0.9960	0.9960
stress	1.0000	1.0000	1.0000
student-depression	0.3693	0.0000	0.0000
student-habits	0.1937	0.0788	0.0839
student-lifestyle	0.3571	0.4053	0.4134
student-weekend	0.3771	0.1841	0.2260
student-workday	0.1676	0.0751	0.1080
studentap	0.3692	0.1415	0.1475
swarm_aligned	0.9935	1.0000	1.0000
swarm_flocking	0.9881	0.9885	0.9835
swarm_grouped	1.0000	1.0000	0.9823
tae	0.5944	0.4000	0.4027
telco-churn	0.8760	0.7514	0.7520
texture	0.9930	0.9920	0.9920
theorem	1.0000	1.0000	1.0000
thoracic	0.6149	0.1671	0.2079
Thyroid_Diff	0.9365	0.8648	0.8728
tis	0.1984	0.0000	0.0000
titanic	0.7934	0.5163	0.5813
tourist	0.0444	0.0000	0.0000
trains	0.3333	0.0000	0.0000
transfusion	0.5824	0.1641	0.1646
tuandromd	0.9719	0.9434	0.9438
turkish	0.8686	0.8000	0.8116
tvnews	0.2679	0.0000	0.0000
ur3_cobotops_grip	0.7604	0.4282	0.4972
ur3_cobotops_stop	0.7588	0.5068	0.5151
urban	0.8519	0.8252	0.8274
ustilago10%	0.6252	0.2504	0.2471
vehicle	0.7755	0.7286	0.7357
vote	0.8623	0.7214	0.7245
vowel	0.4647	0.3667	0.3731
wap-wc	0.0013	0.0000	0.0000
warpar10p	1.0000	1.0000	1.0000
warppie10p	1.0000	1.0000	1.0000
waveform	0.8501	0.7750	0.7752
weather-related	0.9659	0.9605	0.9718
weight-lift	0.0621	0.0000	0.0000
white-clover	0.6604	0.1818	0.3162
wifi-loc	0.9950	0.9933	0.9934
wilt	0.9202	0.8375	0.8402
wine	1.0000	1.0000	1.0000
winequality-red	0.3171	0.4179	0.4183
winequality-white	0.3558	0.3986	0.3996
winnipeg10%	0.0307	0.0000	0.0000
wisc.bc	0.9817	0.9627	0.9633
yale	0.7496	0.7322	0.7416
yeast	0.4130	0.4252	0.4333
yeastCYT-POX	0.9047	0.7897	0.8078
yeastEXC	0.6001	0.1981	0.1995
yeastME1	0.9318	0.8538	0.8630
yeastME2	0.7773	0.4325	0.5253
zip	0.0162	0.0000	0.0000

Table 24: Detailed results for LR

Dataset	F1-macro	Kappa	MCC
abalone	0.1030	0.1209	0.1247
abalone19	0.4982	0.0000	0.0000
accelerometer	0.5338	0.0275	0.0443
ads	0.9482	0.8950	0.8963
adult	0.7749	0.5441	0.5493
advanced-iot	1.0000	1.0000	1.0000
AID_1431	0.4728	-0.0276	0.0000
AID_1431_KlekotaRothFingerprinter	0.4592	-0.0794	0.0000
AID_1431_MACCSFingerprinter	0.4706	-0.0389	0.0000
AID_1878	0.5447	0.0437	0.0679
AID_602330	0.4894	0.0000	0.0000
AID_652128	0.3118	0.0000	0.0000
AID1284red	0.7333	0.3010	0.4209
AID1608Morered	0.5402	0.0804	0.0804
AID1608red	0.4772	-0.0404	0.0000
AID362red	0.4965	0.0000	0.0000
AID373AID439red	0.4999	-0.0002	0.0000
AID373red	0.4997	0.0000	0.0000
AID456red	0.4992	0.0000	0.0000
AID604	0.4991	0.0000	0.0000
AID604AID644_AllRed	0.4997	0.0000	0.0000
AID687AID721red	0.4998	0.0000	0.0000
AID687red	0.4992	0.0000	0.0000
AID688red	0.4977	0.0000	0.0000
AID721morered	0.4000	-0.1739	0.0000
AID721red	0.3571	-0.2857	0.0000
AID746AID1284red	0.4997	0.0000	0.0000
AID746red	0.4985	0.0000	0.0000
aids	0.7886	0.5630	0.5760
air_pollution	0.0826	0.0000	0.0000
alcohol	0.4354	0.5368	0.5453
all-aml	1.0000	1.0000	1.0000
anneal	1.0000	1.0000	1.0000
antivirus	1.0000	1.0000	1.0000
anuran-f-b	0.4976	-0.0024	0.0000
anxiety	0.0827	-0.0333	0.0000
apple-quality	0.7307	0.4600	0.4615
aps-failure	0.8589	0.7131	0.7172
arabidopsis1%	0.7392	0.4184	0.4617
arcene	0.7462	0.4898	0.4924
arrhythmia	0.3754	0.4750	0.4889
auction	0.7211	0.3859	0.4294
audiology	0.3472	0.7416	0.7542
audit-risk	0.9736	0.9459	0.9473
autism-adolescent	1.0000	1.0000	1.0000
autism-adult	1.0000	1.0000	1.0000
autism-child	0.9667	0.9311	0.9333
autos	0.7554	0.8667	0.8758
avila	0.4259	0.3481	0.3976
balance	0.6007	0.7578	0.7649
bank	0.7492	0.4859	0.4961
bankruptcy	1.0000	1.0000	1.0000
bio	0.9140	0.8196	0.8273
biodeg	0.8695	0.7388	0.7389
biomed	1.0000	1.0000	1.0000
Continued on next page			

Dataset	F1-macro	Kappa	MCC
bitcoin10%	0.0342	-0.0001	0.0000
body-perf	0.6290	0.5075	0.5079
brain-tumor	0.5079	0.0159	0.0159
breast-cancer	0.5990	0.1765	0.1936
breast-cancer-ma	0.5345	0.0678	0.0690
breast-tissue	0.7179	0.6733	0.6869
bridges	0.5714	0.7143	0.7143
bub12at310k-hg16-17	0.6307	0.0129	0.0700
cad	1.0000	1.0000	1.0000
cancer	0.9841	0.9677	0.9682
cancer-uae	0.2584	-0.0047	0.0000
car-insurance	0.8008	0.6003	0.6015
cardiotocography-nsp	0.8082	0.7183	0.7184
cardiovascular	0.7200	0.4386	0.4400
cargo2k	1.0000	1.0000	1.0000
cars	0.5859	0.4743	0.4795
ccds10%	0.6459	0.2843	0.2894
cdc_diabetes	0.4247	0.2040	0.2503
census	0.7624	0.4937	0.5182
cervical-B	0.7273	0.4173	0.4455
cervical-H	0.7378	0.4756	0.4756
cervical-S	0.8890	0.7514	0.7758
children-anemia	0.8867	0.8404	0.8404
chrom19	0.8613	0.7156	0.7217
chrom211%	0.4998	0.0000	0.0000
churn	0.6400	0.2199	0.2636
cjs	1.0000	1.0000	1.0000
ckd	1.0000	1.0000	1.0000
clave	0.5583	0.6874	0.6893
cll_sub_111	0.6369	0.3023	0.3061
cmc	0.4607	0.1927	0.1942
cnae-9	0.9818	0.9792	0.9793
codon_usage	0.7046	0.8518	0.8520
coil20	0.9871	0.9854	0.9855
college	0.8873	0.7742	0.7746
collins	0.4541	0.4457	0.4497
colon-tumor	0.6604	0.1818	0.3162
colposcopies-1	0.4919	-0.0162	0.0000
colposcopies-2	0.6122	0.2120	0.2233
colposcopies-4	0.5964	0.1920	0.1927
colposcopies-5	0.4528	0.0000	0.0000
colposcopies-c	0.7397	0.4487	0.4754
column-2c	0.8931	0.7842	0.7863
column-3c	0.6845	0.6303	0.6338
connect-4	1.0000	1.0000	1.0000
coupon	0.6710	0.3404	0.3419
covtype	0.5392	0.5483	0.5494
covtypeCD	0.8815	0.7596	0.7628
covtypeT	0.7417	0.4674	0.4799
crabs	0.9541	0.9333	0.9365
creditcard_trans	0.9058	0.8043	0.8108
crowdsourced	0.7830	0.7806	0.7814
cryotherapy	0.9000	0.7805	0.8000
cultivars	0.1364	0.1663	0.1689
cybersecurity	0.1564	-0.0189	0.0000
cyclopentane	0.7360	0.4706	0.4719
cylinder-bands	0.6971	0.3941	0.3941
datatrieve	0.4800	0.0000	0.0000
Continued on next page			

Dataset	F1-macro	Kappa	MCC
dating	0.1020	0.0027	0.0027
dbworld	1.0000	1.0000	1.0000
default	0.6859	0.3008	0.3563
dementia	1.0000	1.0000	1.0000
deposit	0.7193	0.4145	0.4334
depressed	0.4542	0.0000	0.0000
dermatology	0.9429	0.9325	0.9325
desharnais	0.4678	0.3333	0.3638
df_final	0.7015	0.5062	0.5385
DIA	0.6306	0.2609	0.2611
diabetes-100k	0.8457	0.6772	0.6897
diagnosis	1.0000	1.0000	1.0000
diamonds	0.9601	0.9538	0.9542
diamonds_all	0.5523	0.4876	0.4926
dishonest	1.0000	1.0000	1.0000
dlbcl-nih	0.5353	0.0704	0.0707
dlbcl-stanford	1.0000	1.0000	1.0000
dna0.1%	0.6060	0.2121	0.2121
dota2	0.5971	0.1926	0.1943
drebin	0.9772	0.9544	0.9544
dropout	0.6920	0.6138	0.6189
ecoli	0.5676	0.8373	0.8393
ecoliCP-IM	1.0000	1.0000	1.0000
ecoliM	0.8032	0.6043	0.6062
ecoliMU	0.6333	0.2667	0.2667
ecoliOM	0.8514	0.6526	0.6960
ecommerce	0.2797	0.0399	0.0400
euthyroid	0.8855	0.7651	0.7705
fakenews	0.5374	0.0748	0.0748
fbis-wc	0.8313	0.8382	0.8400
finance	0.7883	0.5523	0.5762
financial-risk	0.6474	0.7474	0.7487
flags	0.3291	0.4737	0.4954
forest	0.9006	0.8941	0.8950
gas	0.9883	0.9861	0.9861
gastrointestinal	0.5906	0.3962	0.4039
gender	0.3800	0.1424	0.1552
german	0.7248	0.4103	0.4462
gestures	0.3347	0.1130	0.1130
gina	0.8184	0.6366	0.6367
gisette	0.9743	0.9486	0.9486
glass	0.4932	0.4400	0.4472
glass-g2	0.8667	0.7333	0.7333
glassBWFP	0.7419	0.4560	0.4824
glassBWNFP	0.6834	0.1818	0.3162
glassContainers	0.4762	0.0000	0.0000
glassNW	0.8662	0.6957	0.7303
glassTableware	1.0000	1.0000	1.0000
GlaucomaM	0.7889	0.5778	0.5778
gli_85	1.0000	1.0000	1.0000
glioma	0.6250	0.7059	0.7500
glioma-grade	0.9055	0.8072	0.8110
green	0.5238	0.0476	0.0476
gsalc	1.0000	1.0000	1.0000
haberman	0.5793	0.1045	0.1410
hapt	0.8737	0.9589	0.9590
har	0.7248	0.6646	0.6655
harth10%	0.2355	0.5122	0.5396
Continued on next page			

Dataset	F1-macro	Kappa	MCC
health-activity	0.2175	0.0000	0.0000
heart	0.8466	0.6932	0.6932
heart-c	0.9000	0.7982	0.8000
heart-failure	0.8057	0.6113	0.6115
heart-quantum	0.9423	0.8780	0.8847
hepatitis	0.8544	0.6667	0.7071
higher	0.0556	0.0059	0.0065
hinselmann	0.4118	-0.1538	0.0000
hitters	0.9373	0.8745	0.8745
hiv1-proteasa	0.8719	0.7433	0.7438
hiva	0.4879	-0.0181	0.0000
horse	0.5593	0.2867	0.2879
hotel-reservartions	0.7939	0.5843	0.5876
hr	0.4602	-0.0199	0.0000
ht-sensor	0.5876	0.3764	0.3794
htru2	0.9352	0.8667	0.8702
hypothyroid	0.6479	0.7904	0.7963
immuno-therapy	0.8333	0.6087	0.6614
ionosphere	0.8674	0.7348	0.7348
iris	1.0000	1.0000	1.0000
irish	1.0000	1.0000	1.0000
isolet	0.9322	0.9279	0.9280
jm1	0.6119	0.1295	0.1884
javowels	0.9452	0.9420	0.9420
kc1-class-level-numericdefect	0.0351	0.1923	0.2010
kc1-class-level-top5percentDF	0.4643	-0.0714	0.0000
kc2	0.6298	0.2394	0.2551
kdc-4007	0.7162	0.7819	0.7836
kddcup991%	0.5458	0.9983	0.9983
kidney	0.1778	0.0000	0.0000
kidney-disease	1.0000	1.0000	1.0000
la2s-wc	0.8500	0.8379	0.8383
labor	0.8537	0.6667	0.7071
leaf	0.4643	0.7547	0.7637
led24	0.6196	0.5531	0.5641
lenses	1.0000	1.0000	1.0000
letter	0.7697	0.7633	0.7634
linkage1%	0.9879	0.9755	0.9758
loan	0.9123	0.8240	0.8245
lrs	0.4605	0.8418	0.8521
lung_discrete	0.7143	1.0000	1.0000
lymphography	0.4140	0.6000	0.6181
lymphoma2	0.5442	0.8421	0.8593
machine-failure	0.8916	0.7825	0.7832
magic04	0.7523	0.4971	0.5043
malware	1.0000	1.0000	1.0000
mammography	0.8536	0.7072	0.7072
marketing	0.7768	0.5110	0.5468
mba	0.3814	0.1099	0.1297
mental-disorders	0.8537	0.7778	0.7926
messidor	0.7342	0.4627	0.4684
meter-A	0.7241	0.3333	0.4472
meter-B	1.0000	1.0000	1.0000
meter-C	0.7290	0.6070	0.6212
meter-D	0.6707	0.7632	0.7776
mfeat-fac	0.9755	0.9722	0.9723
mfeat-fou	0.8316	0.8111	0.8117
mfeat-kar	0.9555	0.9500	0.9501
Continued on next page			

Dataset	F1-macro	Kappa	MCC
mfeat-mor	0.7326	0.6944	0.6961
mfeat-pix	0.9764	0.9722	0.9725
mfeat-zer	0.8012	0.7778	0.7784
mice-prot	1.0000	1.0000	1.0000
milk	0.8811	0.8152	0.8219
mines	0.4355	0.3738	0.3879
mobile	0.8440	0.8327	0.8332
monks-1	0.6382	0.2696	0.2763
monks-3	0.6778	0.3547	0.3556
mushroom	1.0000	1.0000	1.0000
music	0.4968	0.3836	0.3926
MUT_ci300400a_cdk_ECFP2	0.7862	0.5722	0.5723
MUT_ci300400a_cdk_ECFP4	0.7721	0.5437	0.5442
MUT_ci300400a_cdk_ECFP6	0.7482	0.4956	0.4964
MUT_ci300400a_cdk_ESTATE	0.7163	0.4324	0.4326
MUT_ci300400a_cdk_EXTENDED	0.7838	0.5676	0.5677
MUT_ci300400a_cdk_FCFP2	0.7744	0.5483	0.5489
MUT_ci300400a_cdk_FCFP4	0.7583	0.5162	0.5166
MUT_ci300400a_cdk_FCFP6	0.7764	0.5527	0.5528
MUT_ci300400a_cdk_MACCS	0.7528	0.5012	0.5056
MUT_ci300400a_cdk_PUBCHEM	0.8251	0.6488	0.6502
MUT_ci300400a_cdk_STANDARD	0.7724	0.5448	0.5448
MUT_ci300400a_rdkit_descriptors	0.7799	0.5593	0.5598
myocardial	0.2811	0.3849	0.3887
naticusdroid	0.9629	0.9257	0.9258
nci9	0.5556	0.8065	0.8333
ncRNA10%	0.2824	0.6216	0.6432
neo	0.6070	0.1100	0.1666
new-thyroid	1.0000	1.0000	1.0000
new-thyroidT	1.0000	1.0000	1.0000
newspop	0.6451	0.2895	0.2902
NHANES_age_prediction	1.0000	1.0000	1.0000
nomao	0.9308	0.8617	0.8617
nursery	0.7116	0.8991	0.8993
obesity	0.8251	0.8008	0.8016
obs	0.8618	0.7343	0.7416
oh0-wc	0.8780	0.8535	0.8561
oh10-wc	0.7420	0.7179	0.7201
oh15-wc	0.6944	0.6785	0.6820
oh5-wc	0.8164	0.8016	0.8027
olive	0.9385	0.9343	0.9362
optdigits	0.9623	0.9565	0.9565
orlraws10P	1.0000	1.0000	1.0000
ozone1hr	0.7546	0.3553	0.4648
p53-mutants10%	0.4992	0.0000	0.0000
parkinson	0.9741	0.9481	0.9482
particle	0.8535	0.7034	0.7069
pc1	0.4789	-0.0163	0.0000
pcmac	0.4632	-0.0735	0.0000
pediatric-leukemia	0.7841	0.8184	0.8248
pendigits	0.9487	0.9433	0.9434
period-10f	0.5950	0.1818	0.1890
persistence	0.7836	0.5667	0.5672
personalities	0.9187	0.9132	0.9133
pet-adoption	0.9103	0.8088	0.8204
phishing	0.9571	0.9137	0.9143
PhiUSIIL10%	0.9996	0.9991	0.9991
phy	0.7066	0.4131	0.4133
Continued on next page			

Dataset	F1-macro	Kappa	MCC
pima	0.6735	0.3063	0.3435
pirvision	0.9819	0.9670	0.9670
placement	0.7913	0.5826	0.5827
plrx	0.4194	0.0000	0.0000
polya	0.7632	0.5217	0.5263
popularity	0.4591	0.2041	0.2275
post-operative	0.2667	0.0000	0.0000
postures	0.8438	0.8042	0.8045
pred-tox_mutagen_ref-desc	0.6338	0.2647	0.2676
prestige	0.8889	0.8302	0.8462
primary-tumor	0.3170	0.4634	0.4701
processed	1.0000	1.0000	1.0000
profb	0.8308	0.6616	0.6616
promoters	0.8077	0.5455	0.6124
puc-rio	0.7811	0.7755	0.7760
pufs-1281%	0.5080	0.0160	0.0160
pufs-6410%	0.5020	0.0040	0.0040
pulsar	0.9355	0.8661	0.8708
raisin	0.9223	0.8444	0.8447
rejafada	0.4910	0.0000	0.0000
relathe	1.0000	1.0000	1.0000
rice	0.9862	0.9722	0.9723
rocket	0.5793	0.1540	0.1583
RT_IOT2022	0.9461	0.9770	0.9770
satimage	0.8190	0.8189	0.8201
scadi	0.4989	0.6316	0.6860
schiller	0.6786	0.3571	0.3571
sclerosis	1.0000	1.0000	1.0000
secom	0.5970	0.1894	0.1925
secondary_mushroom	0.8708	0.7414	0.7416
seeds	0.9553	0.9286	0.9317
segment	0.9611	0.9494	0.9495
segmentation	0.7977	0.5945	0.5954
segmentO	1.0000	1.0000	1.0000
seismic	0.6083	0.0927	0.1547
sens-2-gram	0.6601	0.0342	0.1320
sens-3-gram	0.5721	0.1148	0.1331
sens-4-gram	0.5868	0.1688	0.1722
sensorless	0.9045	0.8951	0.8951
shoppers	0.7440	0.4269	0.4762
sick	0.8172	0.6142	0.6313
sirtuin6	1.0000	1.0000	1.0000
smarket	0.9842	0.9680	0.9685
smk_can_187	0.8427	0.6816	0.6854
smoking	0.7339	0.4669	0.4679
soil_pollution	0.1993	-0.0058	0.0000
solar-flare	0.6528	0.6854	0.6886
sonar	0.5503	0.1000	0.1005
soybean	1.0000	1.0000	1.0000
spam-detection	0.8110	0.6114	0.6205
spambase	0.9065	0.8106	0.8131
spect	0.5714	0.1429	0.1429
spectf	0.7351	0.4235	0.4648
spectrometer	0.1825	0.5002	0.5058
squash-unstored	0.5714	0.6429	0.6944
startup	1.0000	1.0000	1.0000
steel_industry	0.7028	0.6006	0.6008
stellar	0.9528	0.9266	0.9269
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Dataset	F1-macro	Kappa	MCC
stock	0.8521	0.7004	0.7039
stockb	0.9956	0.9934	0.9934
streaming	0.7975	0.5949	0.5950
stress	1.0000	1.0000	1.0000
student-depression	0.8290	0.6571	0.6581
student-habits	0.1937	0.0788	0.0839
student-lifestyle	0.3571	0.4053	0.4134
student-weekend	0.2663	0.0978	0.0987
student-workday	0.2004	0.1222	0.1326
studentap	0.3111	-0.0636	0.0000
swarm_aligned	1.0000	1.0000	1.0000
swarm_flocking	1.0000	1.0000	1.0000
swarm_grouped	1.0000	1.0000	1.0000
tae	0.4820	0.2000	0.2056
telco-churn	0.8726	0.7449	0.7453
texture	0.9964	0.9960	0.9960
theorem	1.0000	1.0000	1.0000
thoracic	0.5713	0.1215	0.1352
Thyroid_Diff	0.9360	0.8721	0.8721
tis	0.8669	0.7337	0.7338
titanic	0.7833	0.5545	0.5660
tourist	0.4375	0.6364	0.6848
trains	0.3333	0.0000	0.0000
transfusion	0.4231	-0.0504	0.0000
tuandromd	0.9686	0.9371	0.9371
turkish	0.8875	0.8333	0.8404
tvnews	0.8800	0.7596	0.7599
ur3_cobotops_grip	0.4917	0.0000	0.0000
ur3_cobotops_stop	0.4906	0.0000	0.0000
urban	0.8475	0.7910	0.7947
ustilago10%	0.6317	0.2633	0.2633
vehicle	0.7237	0.6653	0.6716
vote	0.9089	0.8143	0.8178
vowel	0.6380	0.5778	0.5923
wap-wc	0.6987	0.7849	0.7861
warpar10p	1.0000	1.0000	1.0000
warppie10p	1.0000	1.0000	1.0000
waveform	0.8362	0.7540	0.7542
weather-related	0.9726	0.9673	0.9674
weight-lift	0.8057	0.7621	0.7625
white-clover	0.3302	0.1818	0.3162
wifi-loc	0.9950	0.9933	0.9934
wilt	0.6776	0.2518	0.3184
wine	1.0000	1.0000	1.0000
winequality-red	0.2710	0.3189	0.3248
winequality-white	0.2565	0.2465	0.2573
winnipeg10%	0.9831	0.9825	0.9825
wisc.bc	0.9817	0.9627	0.9633
yale	0.8320	0.8655	0.8729
yeast	0.3577	0.3533	0.3607
yeastCYT-POX	0.9047	0.7897	0.8078
yeastEXC	0.4897	-0.0183	0.0000
yeastME1	0.6755	0.3211	0.3414
yeastME2	0.7773	0.4325	0.5253
zip	0.9287	0.9253	0.9254

Table 25: Detailed results for MANN

Dataset	F1-macro	Kappa	MCC
abalone	0.0660	0.0235	0.0244
abalone19	0.4982	0.0000	0.0000
accelerometer	0.4955	0.0000	0.0000
ads	0.4623	0.0000	0.0000
adult	0.7806	0.5556	0.5607
advanced-iot	0.0476	0.0000	0.0000
AID_1431	0.4772	0.0000	0.0000
AID_1431_KlekotaRothFingerprinter	0.4772	0.0000	0.0000
AID_1431_MACCSFingerprinter	0.4750	-0.0148	0.0000
AID_1878	0.4503	0.0000	0.0000
AID_602330	0.4894	0.0000	0.0000
AID_652128	0.3118	0.0000	0.0000
AID1284red	0.4627	0.0000	0.0000
AID1608Morered	0.4824	0.0000	0.0000
AID1608red	0.4850	0.0000	0.0000
AID362red	0.4965	0.0000	0.0000
AID373AID439red	0.5000	0.0000	0.0000
AID373red	0.4997	0.0000	0.0000
AID456red	0.4992	0.0000	0.0000
AID604	0.0035	0.0000	0.0000
AID604AID644_AllRed	0.4997	0.0000	0.0000
AID687AID721red	0.4998	0.0000	0.0000
AID687red	0.4992	0.0000	0.0000
AID688red	0.4977	0.0000	0.0000
AID721morered	0.4375	0.0000	0.0000
AID721red	0.4375	0.0000	0.0000
AID746AID1284red	0.4997	0.0000	0.0000
AID746red	0.4984	-0.0003	0.0000
aids	0.8815	0.7584	0.7629
air_pollution	0.0826	0.0000	0.0000
alcohol	0.3907	0.5227	0.5367
all-aml	0.2500	0.0000	0.0000
anneal	0.9872	0.9766	0.9769
antivirus	1.0000	1.0000	1.0000
anuran-f-b	1.0000	1.0000	1.0000
anxiety	0.1169	0.0029	0.0030
apple-quality	0.8981	0.7950	0.7962
aps-failure	0.8394	0.6673	0.6770
arabidopsis1%	0.0079	0.0000	0.0000
arcene	0.2857	0.0000	0.0000
arrhythmia	0.2080	0.4054	0.4191
auction	0.8557	0.6836	0.7086
audiology	0.1683	0.4911	0.5098
audit-risk	0.9736	0.9459	0.9473
autism-adolescent	0.2667	0.0000	0.0000
autism-adult	0.4215	0.0000	0.0000
autism-child	0.9667	0.9311	0.9333
autos	0.7137	0.7980	0.8126
avila	0.3851	0.4805	0.5113
balance	0.6113	0.7879	0.7941
bank	0.7637	0.5236	0.5267
bankruptcy	1.0000	1.0000	1.0000
bio	0.9190	0.8327	0.8375
biodeg	0.9097	0.8191	0.8193
biomed	1.0000	1.0000	1.0000
Continued on next page			

Dataset	F1-macro	Kappa	MCC
bitcoin10%	0.0000	0.0000	0.0000
body-perf	0.1000	0.0000	0.0000
brain-tumor	0.3340	0.0000	0.0000
breast-cancer	0.4167	0.0000	0.0000
breast-cancer-ma	0.3529	0.0000	0.0000
breast-tissue	0.5977	0.6700	0.7215
bridges	0.5593	0.6970	0.7098
bub12at310k-hg16-17	0.4762	0.0000	0.0000
cad	1.0000	1.0000	1.0000
cancer	1.0000	1.0000	1.0000
cancer-uae	0.2201	0.0000	0.0000
car-insurance	0.4072	0.0000	0.0000
cardiotocography-nsp	0.8218	0.7143	0.7175
cardiovascular	0.3335	0.0000	0.0000
cargo2k	1.0000	1.0000	1.0000
cars	0.6724	0.5609	0.5732
ccds10%	0.0370	0.0000	0.0000
cdc_diabetes	0.4163	0.0898	0.1734
census	0.4835	0.0000	0.0000
cervical-B	0.7273	0.4173	0.4455
cervical-H	0.4881	0.0000	0.0000
cervical-S	0.8890	0.7514	0.7758
children-anemia	0.1075	0.0000	0.0000
chrom19	0.8884	0.7706	0.7761
chrom211%	0.4998	0.0000	0.0000
churn	0.7503	0.4804	0.4979
cjs	0.0426	0.0000	0.0000
ckd	0.3939	0.0000	0.0000
clave	0.5591	0.6943	0.7002
cll_sub_111	0.0952	0.0000	0.0000
cmc	0.5173	0.2967	0.2973
cnae-9	0.0222	0.0000	0.0000
codon_usage	0.4600	0.8124	0.8138
coil20	0.0046	0.0000	0.0000
college	0.9018	0.8036	0.8036
collins	0.4410	0.5749	0.5877
colon-tumor	0.2500	0.0000	0.0000
colposcopies-1	0.6837	0.3587	0.3672
colposcopies-2	0.6526	0.2770	0.3025
colposcopies-4	0.4200	0.0000	0.0000
colposcopies-5	0.6238	0.2077	0.2360
colposcopies-c	0.7985	0.5827	0.5958
column-2c	0.8931	0.7842	0.7863
column-3c	0.7395	0.6853	0.6865
connect-4	1.0000	1.0000	1.0000
coupon	0.7371	0.4712	0.4741
covtype	0.0763	0.0000	0.0000
covtypeCD	0.9324	0.8623	0.8647
covtypeT	0.8819	0.7548	0.7630
crabs	1.0000	1.0000	1.0000
creditcard_trans	0.9239	0.8442	0.8476
crowdsourced	0.6847	0.8051	0.8068
cryotherapy	0.9000	0.7805	0.8000
cultivars	0.1830	0.2596	0.2641
cybersecurity	0.0777	-0.0202	0.0000
cyclopentane	0.6250	0.2500	0.2500
cylinder-bands	0.7385	0.4757	0.4771
datatrieve	0.4800	0.0000	0.0000

Continued on next page

Dataset	F1-macro	Kappa	MCC
dating	0.0181	0.0000	0.0000
dbworld	0.3636	0.0000	0.0000
default	0.7130	0.3954	0.4211
dementia	1.0000	1.0000	1.0000
deposit	0.7461	0.4846	0.4909
depressed	0.4542	0.0000	0.0000
dermatology	0.9429	0.9325	0.9325
desharnais	0.5388	0.5152	0.5323
df_final	0.7690	0.6098	0.6385
DIA	0.6817	0.3500	0.3615
diabetes-100k	0.4778	0.0000	0.0000
diagnosis	1.0000	1.0000	1.0000
diamonds	1.0000	1.0000	1.0000
diamonds_all	0.4356	0.4044	0.4440
dishonest	1.0000	1.0000	1.0000
dlbcl-nih	0.3684	0.0000	0.0000
dlbcl-stanford	0.2857	0.0000	0.0000
dna0.1%	0.4993	0.0000	0.0000
dota2	0.5962	0.1915	0.1924
drebin	0.2700	0.0000	0.0000
dropout	0.6613	0.5947	0.6027
ecoli	0.5676	0.8373	0.8393
ecoliCP-IM	1.0000	1.0000	1.0000
ecoliM	0.7753	0.5438	0.5502
ecoliMU	0.8167	0.6333	0.6333
ecoliOM	0.8514	0.6526	0.6960
ecommerce	0.2306	-0.0261	0.0000
euthyroid	0.9166	0.8318	0.8331
fakenews	0.3355	0.0000	0.0000
fbis-wc	0.0042	0.0000	0.0000
finance	1.0000	1.0000	1.0000
financial-risk	0.0692	0.0000	0.0000
flags	0.0476	0.0000	0.0000
forest	0.9159	0.8939	0.8957
gas	0.9879	0.9852	0.9852
gastrointestinal	0.4589	0.3557	0.3756
gender	0.3880	0.1680	0.1801
german	0.6871	0.3602	0.3731
gestures	0.0997	0.0000	0.0000
gina	0.8818	0.7636	0.7636
gisette	0.3333	0.0000	0.0000
glass	0.6837	0.5869	0.5935
glass-g2	0.8873	0.7500	0.7746
glassBWFP	0.9032	0.7879	0.8062
glassBWNFP	0.7427	0.4828	0.4854
glassContainers	0.8483	0.6452	0.6901
glassNW	0.9340	0.8591	0.8677
glassTableware	0.4884	0.0000	0.0000
GlaucomaM	0.7889	0.5778	0.5778
gli_85	0.2000	0.0000	0.0000
glioma	0.1905	0.0000	0.0000
glioma-grade	0.9055	0.8072	0.8110
green	0.5238	0.0476	0.0476
gsalc	0.0606	0.0000	0.0000
haberman	0.6698	0.3226	0.3371
hapt	0.2410	0.4223	0.4772
har	0.7693	0.7215	0.7255
harth10%	0.3286	0.6345	0.6429
Continued on next page			

Dataset	F1-macro	Kappa	MCC
health-activity	0.2175	0.0000	0.0000
heart	0.8548	0.7017	0.7096
heart-c	0.9067	0.7964	0.8134
heart-failure	0.4069	0.0000	0.0000
heart-quantum	0.9194	0.8361	0.8389
hepatitis	0.8544	0.6667	0.7071
higher	0.1079	0.1083	0.1624
hinselmann	0.4444	0.0000	0.0000
hitters	0.9373	0.8745	0.8745
hiv1-proteasa	0.8614	0.7216	0.7228
hiva	0.0342	0.0000	0.0000
horse	0.5728	0.3915	0.4117
hotel-reservartions	0.4020	0.0000	0.0000
hr	0.4633	0.0000	0.0000
ht-sensor	0.7766	0.6580	0.6615
htru2	0.9326	0.8643	0.8652
hypothyroid	0.7032	0.8894	0.8895
immuno-therapy	0.8333	0.6087	0.6614
ionosphere	0.8990	0.7961	0.7980
iris	0.8676	0.7945	0.8176
irish	1.0000	1.0000	1.0000
isolet	0.3663	0.3698	0.3811
jm1	0.6391	0.1888	0.2498
javowels	0.9203	0.9169	0.9172
kc1-class-level-numericdefect	0.0326	0.0000	0.0000
kc1-class-level-top5percentDF	0.4643	-0.0714	0.0000
kc2	0.6059	0.2020	0.2096
kdc-4007	0.0345	0.0000	0.0000
kddcup991%	0.0423	0.0388	0.0550
kidney	0.1778	0.0000	0.0000
kidney-disease	0.3846	0.0000	0.0000
la2s-wc	0.0319	0.0000	0.0000
labor	0.8537	0.6667	0.7071
leaf	0.2171	0.3614	0.3700
led24	0.6727	0.6591	0.6667
lenses	0.5714	0.5000	0.6124
letter	0.6273	0.6010	0.6032
linkage1%	1.0000	1.0000	1.0000
loan	0.3838	0.0000	0.0000
lrs	0.4605	0.8418	0.8521
lung_discrete	0.1905	0.3333	0.4000
lymphography	0.4140	0.6000	0.6181
lymphoma2	0.1026	0.0000	0.0000
machine-failure	0.8904	0.7809	0.7809
magic04	0.8645	0.7198	0.7288
malware	1.0000	1.0000	1.0000
mammography	0.8434	0.6867	0.6868
marketing	0.7712	0.5259	0.5400
mba	0.0845	0.0000	0.0000
mental-disorders	0.9270	0.8889	0.8972
messidor	0.7335	0.4668	0.4671
meter-A	0.8000	0.5294	0.6000
meter-B	1.0000	1.0000	1.0000
meter-C	1.0000	1.0000	1.0000
meter-D	0.8784	0.8448	0.8561
mfeat-fac	0.9706	0.9667	0.9668
mfeat-fou	0.8000	0.7778	0.7782
mfeat-kar	0.9706	0.9667	0.9668
Continued on next page			

Dataset	F1-macro	Kappa	MCC
mfeat-mor	0.7407	0.7056	0.7076
mfeat-pix	0.7960	0.8000	0.8092
mfeat-zer	0.8318	0.8111	0.8176
mice-prot	1.0000	1.0000	1.0000
milk	1.0000	1.0000	1.0000
mines	0.5682	0.4826	0.4912
mobile	0.4571	0.5016	0.5046
monks-1	1.0000	1.0000	1.0000
monks-3	0.9824	0.9642	0.9648
mushroom	1.0000	1.0000	1.0000
music	0.0136	0.0000	0.0000
MUT_ci300400a_cdk_ECFP2	0.2944	0.0000	0.0000
MUT_ci300400a_cdk_ECFP4	0.2942	0.0000	0.0000
MUT_ci300400a_cdk_ECFP6	0.2948	0.0000	0.0000
MUT_ci300400a_cdk_ESTATE	0.7414	0.4788	0.4828
MUT_ci300400a_cdk_EXTENDED	0.2944	0.0000	0.0000
MUT_ci300400a_cdk_FCFP2	0.2942	0.0000	0.0000
MUT_ci300400a_cdk_FCFP4	0.2944	0.0000	0.0000
MUT_ci300400a_cdk_FCFP6	0.2944	0.0000	0.0000
MUT_ci300400a_cdk_MACCS	0.8149	0.6279	0.6298
MUT_ci300400a_cdk_PUBCHEM	0.8326	0.6623	0.6652
MUT_ci300400a_cdk_STANDARD	0.2942	0.0000	0.0000
MUT_ci300400a_rdkit_descriptors	0.8326	0.6636	0.6651
myocardial	0.2850	0.4146	0.4883
naticusdroid	0.9707	0.9414	0.9414
nci9	0.0476	0.0000	0.0000
ncRNA10%	0.0461	0.0000	0.0000
neo	0.4744	0.0000	0.0000
new-thyroid	1.0000	1.0000	1.0000
new-thyroidT	1.0000	1.0000	1.0000
newspop	0.6572	0.3131	0.3144
NHANES_age_prediction	1.0000	1.0000	1.0000
nomao	0.9326	0.8652	0.8652
nursery	0.5859	0.9463	0.9470
obesity	0.7260	0.6846	0.6935
obs	0.9132	0.8338	0.8342
oh0-wc	0.0112	0.0000	0.0000
oh10-wc	0.0205	0.0000	0.0000
oh15-wc	0.0122	0.0000	0.0000
oh5-wc	0.0143	0.0000	0.0000
olive	0.9385	0.9343	0.9362
optdigits	0.9153	0.9011	0.9019
orlraws10P	0.0182	0.0000	0.0000
ozone1hr	0.7546	0.3553	0.4648
p53-mutants10%	0.4992	0.0000	0.0000
parkinson	0.9914	0.9827	0.9828
particle	0.9036	0.8071	0.8072
pc1	0.5907	0.1483	0.1684
pcmac	0.2945	0.0000	0.0000
pediatric-leukemia	0.0159	0.0000	0.0000
pendigits	0.9464	0.9393	0.9396
period-10f	0.5000	0.0000	0.0000
persistence	0.7786	0.5541	0.5570
personalities	0.0074	0.0000	0.0000
pet-adoption	0.9258	0.8501	0.8515
phishing	0.9657	0.9315	0.9315
PhiUSIL10%	1.0000	1.0000	1.0000
phy	0.7012	0.4024	0.4025
Continued on next page			

Dataset	F1-macro	Kappa	MCC
pima	0.7191	0.4081	0.4366
pirvision	0.9886	0.9793	0.9793
placement	0.3671	0.0000	0.0000
plrx	0.4194	0.0000	0.0000
polya	0.7518	0.5027	0.5036
popularity	0.4250	0.2419	0.2641
post-operative	0.2667	0.0000	0.0000
postures	0.9027	0.8777	0.8780
pred-tox_mutagen_ref-desc	0.6494	0.2941	0.2988
prestige	0.8889	0.8302	0.8462
primary-tumor	0.1249	0.2326	0.2513
processed	1.0000	1.0000	1.0000
profb	0.7434	0.4865	0.4867
promoters	0.8077	0.5455	0.6124
puc-rio	0.7557	0.7891	0.7940
pufs-1281%	0.4994	-0.0013	0.0000
pufs-6410%	0.3334	0.0000	0.0000
pulsar	0.4757	0.0000	0.0000
raisin	0.9009	0.8000	0.8018
rejafada	0.0340	0.0000	0.0000
relathe	0.3516	0.0000	0.0000
rice	0.3545	0.0000	0.0000
rocket	0.6336	0.2665	0.2671
RT_IOT2022	0.5246	0.9030	0.9036
satimage	0.8556	0.8500	0.8505
scadi	0.1200	0.0000	0.0000
schiller	0.5950	0.1818	0.1890
sclerosis	1.0000	1.0000	1.0000
secom	0.4834	0.0000	0.0000
secondary_mushroom	0.9845	0.9689	0.9689
seeds	0.9553	0.9286	0.9317
segment	0.9463	0.9291	0.9294
segmentation	0.8070	0.6139	0.6141
segmentO	1.0000	1.0000	1.0000
seismic	0.4830	0.0000	0.0000
sens-2-gram	0.4648	0.0000	0.0000
sens-3-gram	0.4648	0.0000	0.0000
sens-4-gram	0.4648	0.0000	0.0000
sensorless	0.7986	0.7755	0.7787
shoppers	0.7920	0.5779	0.5833
sick	0.8708	0.7291	0.7402
sirtuin6	1.0000	1.0000	1.0000
smarket	0.9921	0.9840	0.9841
smk_can_187	0.3214	0.0000	0.0000
smoking	0.3876	0.0000	0.0000
soil_pollution	0.1779	-0.0078	0.0000
solar-flare	0.5668	0.6561	0.6609
sonar	0.5503	0.1000	0.1005
soybean	0.7837	0.8863	0.8889
spam-detection	0.4759	0.0000	0.0000
spambase	0.9224	0.8443	0.8448
spect	0.6786	0.3571	0.3571
spectf	0.9300	0.8600	0.8600
spectrometer	0.1156	0.2229	0.2307
squash-unstored	0.5714	0.6429	0.6944
startup	1.0000	1.0000	1.0000
steel_industry	0.8008	0.7273	0.7312
stellar	0.2486	0.0000	0.0000
Continued on next page			

Dataset	F1-macro	Kappa	MCC
stock	0.8125	0.6194	0.6245
stockb	1.0000	1.0000	1.0000
streaming	0.3094	0.0000	0.0000
stress	1.0000	1.0000	1.0000
student-depression	0.3693	0.0000	0.0000
student-habits	0.1059	0.0000	0.0000
student-lifestyle	0.3549	0.3930	0.3990
student-weekend	0.2299	0.1406	0.1599
student-workday	0.1651	0.0000	0.0000
studentap	0.6667	0.5185	0.5339
swarm_aligned	0.4075	0.0000	0.0000
swarm_flocking	0.3333	0.0000	0.0000
swarm_grouped	0.3846	0.0000	0.0000
tae	0.5344	0.2000	0.2200
telco-churn	0.2099	0.0000	0.0000
texture	0.9965	0.9960	0.9960
theorem	1.0000	1.0000	1.0000
thoracic	0.4598	0.0000	0.0000
Thyroid_Diff	0.9365	0.8648	0.8728
tis	0.7918	0.5795	0.5833
titanic	0.7934	0.5163	0.5813
tourist	0.0444	0.0000	0.0000
trains	0.3333	0.0000	0.0000
transfusion	0.5749	0.1379	0.1469
tuandromd	0.9650	0.9298	0.9299
turkish	0.7979	0.7333	0.7358
tvnews	0.2679	0.0000	0.0000
ur3_cobotops_grip	0.7346	0.4321	0.4596
ur3_cobotops_stop	0.6785	0.2735	0.3281
urban	0.8380	0.7903	0.7932
ustilago10%	0.0106	0.0000	0.0000
vehicle	0.7487	0.6969	0.7018
vote	0.8878	0.7681	0.7756
vowel	0.7013	0.6667	0.6791
wap-wc	0.0013	0.0000	0.0000
warpar10p	0.0267	0.0000	0.0000
warppie10p	0.0174	0.0000	0.0000
waveform	0.8524	0.7781	0.7787
weather-related	0.0296	0.0000	0.0000
weight-lift	0.2119	0.1504	0.2194
white-clover	0.3302	0.1818	0.3162
wifi-loc	0.9950	0.9933	0.9934
wilt	0.9793	0.9578	0.9587
wine	0.9410	0.9006	0.9064
winequality-red	0.2539	0.2552	0.2583
winequality-white	0.2832	0.2554	0.2627
winnipeg10%	0.9678	0.9802	0.9802
wisc.bc	0.9817	0.9627	0.9633
yale	0.0078	0.0000	0.0000
yeast	0.4425	0.4399	0.4433
yeastCYT-POX	0.9047	0.7897	0.8078
yeastEXC	0.4897	-0.0183	0.0000
yeastME1	0.7662	0.3934	0.4949
yeastME2	0.7773	0.4325	0.5253
zip	0.8306	0.8188	0.8224

Table 26: Detailed results for MARS

Dataset	F1-macro	Kappa	MCC
abalone	0.1251	0.1005	0.1029
abalone19	0.4982	0.0000	0.0000
accelerometer	0.6687	0.1265	0.2339
ads	0.9277	0.8485	0.8551
adult	0.7870	0.5645	0.5731
advanced-iot	0.0476	0.0000	0.0000
AID_1431	0.4772	0.0000	0.0000
AID_1431_KlekotaRothFingerprinter	0.4772	0.0000	0.0000
AID_1431_MACCSFingerprinter	0.4772	0.0000	0.0000
AID_1878	0.4503	0.0000	0.0000
AID_602330	0.4894	0.0000	0.0000
AID_652128	0.3118	0.0000	0.0000
AID1284red	0.4627	0.0000	0.0000
AID1608Morered	0.4824	0.0000	0.0000
AID1608red	0.4850	0.0000	0.0000
AID362red	0.4965	0.0000	0.0000
AID373AID439red	0.5000	0.0000	0.0000
AID373red	0.4997	0.0000	0.0000
AID456red	0.4992	0.0000	0.0000
AID604	0.4991	0.0000	0.0000
AID604AID644_AllRed	0.4997	0.0000	0.0000
AID687AID721red	0.4998	0.0000	0.0000
AID687red	0.4992	0.0000	0.0000
AID688red	0.4977	0.0000	0.0000
AID721morered	0.4375	0.0000	0.0000
AID721red	0.4375	0.0000	0.0000
AID746AID1284red	0.4997	0.0000	0.0000
AID746red	0.4985	0.0000	0.0000
aids	0.8538	0.7007	0.7072
air_pollution	0.0826	0.0000	0.0000
alcohol	0.2709	0.4159	0.4335
all-aml	0.8537	0.6667	0.7071
anneal	0.9732	0.9524	0.9527
antivirus	1.0000	1.0000	1.0000
anuran-f-b	0.9626	0.9224	0.9252
anxiety	0.0232	0.0000	0.0000
apple-quality	0.7627	0.5250	0.5253
aps-failure	0.8115	0.6128	0.6211
arabidopsis1%	0.0079	0.0000	0.0000
arcene	0.7897	0.5652	0.5791
arrhythmia	0.5726	0.5577	0.5697
auction	0.9093	0.8177	0.8185
audiology	0.8670	0.8940	0.8983
audit-risk	1.0000	1.0000	1.0000
autism-adolescent	1.0000	1.0000	1.0000
autism-adult	0.4215	0.0000	0.0000
autism-child	1.0000	1.0000	1.0000
autos	0.9520	0.9340	0.9372
avila	0.4112	0.4720	0.4935
balance	0.6243	0.8175	0.8276
bank	0.7548	0.5004	0.5080
bankruptcy	1.0000	1.0000	1.0000
bio	0.9096	0.8108	0.8184
biodeg	0.8990	0.7981	0.7981
biomed	1.0000	1.0000	1.0000
Continued on next page			

Dataset	F1-macro	Kappa	MCC
bitcoin10%	0.0903	0.0000	0.0000
body-perf	0.1000	0.0000	0.0000
brain-tumor	0.3340	0.0000	0.0000
breast-cancer	0.6518	0.2462	0.2921
breast-cancer-ma	0.3529	0.0000	0.0000
breast-tissue	0.7490	0.6733	0.6939
bridges	0.6333	0.5714	0.5798
bub12at310k-hg16-17	0.6788	0.2779	0.3327
cad	1.0000	1.0000	1.0000
cancer	0.9684	0.9348	0.9368
cancer-uae	0.2201	0.0000	0.0000
car-insurance	0.4072	0.0000	0.0000
cardiotocography-nsp	0.8222	0.7008	0.7011
cardiovascular	0.3335	0.0000	0.0000
cargo2k	1.0000	1.0000	1.0000
cars	0.6310	0.5000	0.5007
ccds10%	0.0370	0.0000	0.0000
cdc_diabetes	0.4265	0.2112	0.2558
census	0.4835	0.0000	0.0000
cervical-B	0.8563	0.7088	0.7122
cervical-H	0.4881	0.0000	0.0000
cervical-S	0.8890	0.7514	0.7758
children-anemia	0.1075	0.0000	0.0000
chrom19	0.9106	0.8126	0.8204
chrom211%	0.4998	0.0000	0.0000
churn	0.7316	0.4470	0.4608
cjs	0.0426	0.0000	0.0000
ckd	0.3939	0.0000	0.0000
clave	0.4949	0.6023	0.6276
cll_sub_111	0.7222	0.4545	0.4545
cmc	0.5427	0.3129	0.3151
cnae-9	0.0222	0.0000	0.0000
codon_usage	0.4976	0.6876	0.6917
coil20	0.8381	0.8246	0.8260
college	0.9172	0.8338	0.8343
collins	1.0000	1.0000	1.0000
colon-tumor	0.7500	0.4000	0.5000
colposcopies-1	0.6184	0.2368	0.2368
colposcopies-2	0.7005	0.3446	0.3957
colposcopies-4	0.4372	-0.1226	0.0000
colposcopies-5	0.4423	-0.0610	0.0000
colposcopies-c	0.7526	0.3777	0.4825
column-2c	0.8931	0.7842	0.7863
column-3c	0.6845	0.6303	0.6338
connect-4	0.6115	0.3608	0.4519
coupon	0.6855	0.3688	0.3709
covtype	0.0763	0.0000	0.0000
covtypeCD	0.9331	0.8653	0.8661
covtypeT	0.8398	0.6740	0.6788
crabs	1.0000	1.0000	1.0000
creditcard_trans	0.4996	0.0000	0.0000
crowdsourced	0.6447	0.7379	0.7402
cryotherapy	0.7404	0.3721	0.4781
cultivars	0.1442	0.1613	0.1645
cybersecurity	0.0500	0.0000	0.0000
cyclopentane	0.8149	0.6281	0.6298
cylinder-bands	0.7527	0.5049	0.5053
datatrieve	0.4091	-0.1304	0.0000
Continued on next page			

Dataset	F1-macro	Kappa	MCC
dating	0.0181	0.0000	0.0000
dbworld	0.3636	0.0000	0.0000
default	0.7128	0.3858	0.4190
dementia	1.0000	1.0000	1.0000
deposit	0.7104	0.4043	0.4172
depressed	0.4542	0.0000	0.0000
dermatology	0.9429	0.9325	0.9325
desharnais	0.7879	0.6098	0.6616
df_final	0.1818	0.0000	0.0000
DIA	0.6153	0.2105	0.2265
diabetes-100k	0.4778	0.0000	0.0000
diagnosis	1.0000	1.0000	1.0000
diamonds	1.0000	1.0000	1.0000
diamonds_all	0.7554	0.6761	0.6790
dishonest	1.0000	1.0000	1.0000
dlbcl-nih	0.5299	0.0526	0.0598
dlbcl-stanford	0.7059	0.2857	0.4082
dna0.1%	0.4993	0.0000	0.0000
dota2	0.3210	0.0000	0.0000
drebin	0.2700	0.0000	0.0000
dropout	0.6674	0.5834	0.5912
ecoli	0.7783	0.8747	0.8783
ecoliCP-IM	1.0000	1.0000	1.0000
ecoliM	0.8825	0.7626	0.7650
ecoliMU	0.7649	0.5217	0.5285
ecoliOM	0.8514	0.6526	0.6960
ecommerce	0.1032	0.0000	0.0000
euthyroid	0.9106	0.8212	0.8212
fakenews	0.3355	0.0000	0.0000
fbis-wc	0.4191	0.5663	0.5767
finance	1.0000	1.0000	1.0000
financial-risk	0.0692	0.0000	0.0000
flags	0.0476	0.0000	0.0000
forest	0.8906	0.8669	0.8710
gas	0.9634	0.9573	0.9573
gastrointestinal	0.6925	0.5975	0.6090
gender	0.5261	0.1838	0.2029
german	0.6980	0.3705	0.3938
gestures	0.0997	0.0000	0.0000
gina	0.8904	0.7809	0.7809
gisette	0.9359	0.8714	0.8719
glass	0.6981	0.6708	0.6751
glass-g2	0.9352	0.8621	0.8704
glassBWFP	0.8568	0.6736	0.7126
glassBWNFP	0.7771	0.5385	0.5534
glassContainers	0.8483	0.6452	0.6901
glassNW	0.9340	0.8591	0.8677
glassTableware	1.0000	1.0000	1.0000
GlaucomaM	0.7978	0.5824	0.5955
gli_85	0.2000	0.0000	0.0000
glioma	1.0000	1.0000	1.0000
glioma-grade	0.9055	0.8072	0.8110
green	0.6098	0.2105	0.2182
gsalc	0.7059	0.7313	0.7539
haberman	0.5739	0.1477	0.1477
hapt	0.7177	0.8636	0.8646
har	0.0886	0.0000	0.0000
harth10%	0.3757	0.7138	0.7179
Continued on next page			

Dataset	F1-macro	Kappa	MCC
health-activity	0.2175	0.0000	0.0000
heart	0.9635	0.9244	0.9270
heart-c	0.9330	0.8661	0.8661
heart-failure	0.4069	0.0000	0.0000
heart-quantum	0.9423	0.8780	0.8847
hepatitis	0.6481	0.2857	0.2942
higher	0.2500	0.0888	0.0957
hinselmann	0.3750	-0.2500	0.0000
hitters	0.9373	0.8745	0.8745
hiv1-proteasa	0.8377	0.6748	0.6754
hiva	0.4910	0.0000	0.0000
horse	0.5468	0.2613	0.2670
hotel-reservartions	0.4020	0.0000	0.0000
hr	0.4633	0.0000	0.0000
ht-sensor	0.7013	0.5459	0.5496
htru2	0.9390	0.8754	0.8778
hypothyroid	0.7384	0.9532	0.9534
immuno-therapy	0.8784	0.7273	0.7559
ionosphere	0.8767	0.7473	0.7533
iris	1.0000	1.0000	1.0000
irish	1.0000	1.0000	1.0000
isolet	0.6942	0.6769	0.6779
jm1	0.6270	0.1826	0.2316
fvowels	0.9038	0.8998	0.9000
kc1-class-level-numericdefect	0.1636	0.0000	0.0000
kc1-class-level-top5percentDF	0.4828	0.0000	0.0000
kc2	0.6307	0.2589	0.2609
kdc-4007	0.0345	0.0000	0.0000
kddcup991%	0.7011	0.9901	0.9901
kidney	0.1778	0.0000	0.0000
kidney-disease	0.3846	0.0000	0.0000
la2s-wc	0.7071	0.6500	0.6561
labor	0.8537	0.6667	0.7071
leaf	0.4964	0.5068	0.5152
led24	0.6847	0.6045	0.6114
lenses	0.5714	0.5000	0.6124
letter	0.7043	0.6874	0.6881
linkage1%	1.0000	1.0000	1.0000
loan	0.3838	0.0000	0.0000
lrs	0.7543	0.7909	0.7993
lung_discrete	0.9000	0.8431	0.8600
lymphography	0.8456	0.6147	0.6205
lymphoma2	0.5556	0.5714	0.5902
machine-failure	0.9134	0.8260	0.8268
magic04	0.8347	0.6655	0.6693
malware	1.0000	1.0000	1.0000
mammography	0.8325	0.6645	0.6651
marketing	0.7556	0.4828	0.5064
mba	0.0845	0.0000	0.0000
mental-disorders	0.8537	0.7778	0.7926
messidor	0.7441	0.4881	0.4882
meter-A	1.0000	1.0000	1.0000
meter-B	1.0000	1.0000	1.0000
meter-C	0.8914	0.8487	0.8560
meter-D	1.0000	1.0000	1.0000
mfeat-fac	0.9313	0.9222	0.9226
mfeat-fou	0.7786	0.7556	0.7559
mfeat-kar	0.9226	0.9111	0.9118
Continued on next page			

Dataset	F1-macro	Kappa	MCC
mfeat-mor	0.7231	0.6889	0.6915
mfeat-pix	0.8538	0.8333	0.8343
mfeat-zer	0.7675	0.7333	0.7341
mice-prot	1.0000	1.0000	1.0000
milk	0.9918	0.9855	0.9856
mines	0.4930	0.4119	0.4447
mobile	0.7326	0.7187	0.7195
monks-1	0.7428	0.3746	0.4801
monks-3	0.9824	0.9642	0.9648
mushroom	1.0000	1.0000	1.0000
music	0.0136	0.0000	0.0000
MUT_ci300400a_cdk_ECFP2	0.2944	0.0000	0.0000
MUT_ci300400a_cdk_ECFP4	0.7632	0.5263	0.5264
MUT_ci300400a_cdk_ECFP6	0.7166	0.4319	0.4331
MUT_ci300400a_cdk_ESTATE	0.7127	0.4252	0.4254
MUT_ci300400a_cdk_EXTENDED	0.7647	0.5292	0.5295
MUT_ci300400a_cdk_FCFP2	0.7479	0.4947	0.4957
MUT_ci300400a_cdk_FCFP4	0.7312	0.4613	0.4624
MUT_ci300400a_cdk_FCFP6	0.7618	0.5236	0.5236
MUT_ci300400a_cdk_MACCS	0.7275	0.4513	0.4549
MUT_ci300400a_cdk_PUBCHEM	0.7863	0.5710	0.5726
MUT_ci300400a_cdk_STANDARD	0.7569	0.5132	0.5138
MUT_ci300400a_rdkit_descriptors	0.7494	0.4986	0.4988
myocardial	0.4991	0.5813	0.6187
naticusdroid	0.9527	0.9052	0.9053
nci9	0.5714	0.6000	0.6445
ncRNA10%	0.0461	0.0000	0.0000
neo	0.4744	0.0000	0.0000
new-thyroid	0.8596	0.7586	0.7817
new-thyroidT	0.8981	0.7742	0.7947
newspop	0.6614	0.3221	0.3229
NHANES_age_prediction	1.0000	1.0000	1.0000
nomao	0.9298	0.8595	0.8596
nursery	0.6977	0.8788	0.8796
obesity	0.8423	0.8174	0.8176
obs	0.9067	0.8077	0.8077
oh0-wc	0.8419	0.7696	0.7913
oh10-wc	0.6805	0.6189	0.6501
oh15-wc	0.7124	0.6201	0.6445
oh5-wc	0.7510	0.6127	0.6578
olive	0.8798	0.8920	0.8923
optdigits	0.8338	0.8141	0.8144
orlraws10P	1.0000	1.0000	1.0000
ozone1hr	0.4909	0.0000	0.0000
p53-mutants10%	0.4992	0.0000	0.0000
parkinson	0.9831	0.9657	0.9663
particle	0.8909	0.7817	0.7818
pc1	0.4813	0.0000	0.0000
pcmac	0.5435	0.0262	0.0604
pediatric-leukemia	0.8563	0.7841	0.7867
pendigits	0.9218	0.9140	0.9141
period-10f	0.5000	0.0000	0.0000
persistence	0.7983	0.5949	0.5966
personalities	0.0074	0.0000	0.0000
pet-adoption	0.9432	0.8843	0.8864
phishing	0.9489	0.8976	0.8977
PhiUSIL10%	0.9970	0.9939	0.9940
phy	0.7005	0.4006	0.4010
Continued on next page			

Dataset	F1-macro	Kappa	MCC
pima	0.7029	0.3973	0.4056
pirvision	0.9816	0.9667	0.9668
placement	0.3671	0.0000	0.0000
plrx	0.4194	0.0000	0.0000
polya	0.7268	0.4482	0.4533
popularity	0.4966	0.2540	0.2755
post-operative	0.2667	0.0000	0.0000
postures	0.7289	0.6634	0.6641
pred-tox_mutagen_ref-desc	0.7353	0.4706	0.4706
prestige	0.9106	0.8235	0.8407
primary-tumor	0.2170	0.2508	0.2607
processed	0.4040	0.0000	0.0000
profb	0.5921	0.1145	0.1643
promoters	0.7674	0.4444	0.5345
puc-rio	0.8278	0.8626	0.8638
pufs-1281%	0.3334	0.0000	0.0000
pufs-6410%	0.3334	0.0000	0.0000
pulsar	0.4757	0.0000	0.0000
raisin	0.8779	0.7556	0.7557
rejabatada	0.0340	0.0000	0.0000
relathe	1.0000	1.0000	1.0000
rice	0.3545	0.0000	0.0000
rocket	0.6109	0.2195	0.2218
RT_IOT2022	0.9140	0.9714	0.9715
satimage	0.8722	0.8656	0.8661
scadi	0.6984	0.6316	0.6860
schiller	0.4375	0.0000	0.0000
sclerosis	1.0000	1.0000	1.0000
secom	0.4834	0.0000	0.0000
secondary_mushroom	0.8434	0.6866	0.6868
seeds	0.9152	0.8571	0.8660
segment	0.9657	0.9544	0.9548
segmentation	0.8028	0.6042	0.6055
segmentO	1.0000	1.0000	1.0000
seismic	0.4830	0.0000	0.0000
sens-2-gram	0.4648	0.0000	0.0000
sens-3-gram	0.6601	0.0342	0.1320
sens-4-gram	0.4648	0.0000	0.0000
sensorless	0.9714	0.9675	0.9676
shoppers	0.7947	0.5842	0.5889
sick	0.8573	0.6981	0.7127
sirtuin6	0.8000	0.6000	0.6000
smarket	0.9921	0.9840	0.9841
smk_can_187	0.3214	0.0000	0.0000
smoking	0.3876	0.0000	0.0000
soil_pollution	0.0685	0.0000	0.0000
solar-flare	0.6968	0.6846	0.6893
sonar	0.4497	-0.1000	0.0000
soybean	0.9664	0.9678	0.9683
spam-detection	0.4759	0.0000	0.0000
spambase	0.9156	0.8297	0.8312
spect	0.6196	0.2340	0.2385
spectf	0.8928	0.7835	0.7856
spectrometer	0.4971	0.5912	0.5945
squash-unstored	0.8333	0.6154	0.6667
startup	1.0000	1.0000	1.0000
steel_industry	0.8324	0.7818	0.7818
stellar	0.2486	0.0000	0.0000
Continued on next page			

Dataset	F1-macro	Kappa	MCC
stock	0.9882	0.9762	0.9765
stockb	0.9956	0.9934	0.9934
streaming	0.3094	0.0000	0.0000
stress	1.0000	1.0000	1.0000
student-depression	0.3693	0.0000	0.0000
student-habits	0.1101	0.0000	0.0000
student-lifestyle	0.3505	0.3967	0.4014
student-weekend	0.3096	0.1564	0.1796
student-workday	0.2263	0.1443	0.1770
studentap	0.3636	0.1415	0.1460
swarm_aligned	0.9976	0.9952	0.9952
swarm_flocking	0.9975	0.9950	0.9950
swarm_grouped	1.0000	1.0000	1.0000
tae	0.3490	0.1000	0.1050
telco-churn	0.2099	0.0000	0.0000
texture	0.9830	0.9799	0.9800
theorem	1.0000	1.0000	1.0000
thoracic	0.4598	0.0000	0.0000
Thyroid_Diff	0.9360	0.8721	0.8721
tis	0.8729	0.7449	0.7458
titanic	0.7833	0.5545	0.5660
tourist	0.5250	0.6364	0.6848
trains	0.3333	0.0000	0.0000
transfusion	0.5749	0.1379	0.1469
tuandromd	0.9586	0.9172	0.9173
turkish	0.8099	0.7333	0.7389
tvnews	0.8570	0.7132	0.7139
ur3_cobotops_grip	0.6361	0.1894	0.2386
ur3_cobotops_stop	0.7757	0.5322	0.5474
urban	0.7686	0.7036	0.7097
ustilago10%	0.0106	0.0000	0.0000
vehicle	0.7041	0.6473	0.6506
vote	0.9307	0.8605	0.8615
vowel	0.5163	0.4333	0.4493
wap-wc	0.3802	0.4515	0.4656
warpar10p	0.6055	0.6510	0.6600
warppie10p	1.0000	1.0000	1.0000
waveform	0.8220	0.7329	0.7330
weather-related	0.0296	0.0000	0.0000
weight-lift	0.7198	0.6687	0.6703
white-clover	0.2500	-0.5000	0.0000
wifi-loc	0.9900	0.9867	0.9867
wilt	0.9371	0.8735	0.8742
wine	1.0000	1.0000	1.0000
winequality-red	0.2580	0.2503	0.2546
winequality-white	0.3312	0.2640	0.2716
winnipeg10%	0.9697	0.9631	0.9631
wisc.bc	0.9817	0.9627	0.9633
yale	0.6923	0.6667	0.6809
yeast	0.3962	0.3961	0.4025
yeastCYT-POX	0.9047	0.7897	0.8078
yeastEXC	0.6755	0.3211	0.3414
yeastME1	0.8546	0.6605	0.7022
yeastME2	0.7218	0.2410	0.3702
zip	0.8226	0.8180	0.8182

Table 27: Detailed results for MondrianForest

Dataset	F1-macro	Kappa	MCC
abalone	0.1187	0.0500	0.0506
abalone19	0.0072	-0.0048	0.0000
accelerometer	0.6660	0.1251	0.2434
ads	0.4564	0.0000	0.0000
adult	0.7656	0.4597	0.5054
advanced-iot	0.0479	0.0000	0.0000
AID_1431	0.5933	0.1868	0.1870
AID_1431_KlekotaRothFingerprinter	0.4786	0.0000	0.0000
AID_1431_MACCSFingerprinter	0.4815	-0.0115	0.0000
AID_1878	0.5762	0.1774	0.1924
AID_602330	0.1852	0.0043	0.0233
AID_652128	0.1534	-0.0097	0.0000
AID1284red	0.2198	-0.0792	0.0000
AID1608Morered	0.0632	0.0000	0.0000
AID1608red	0.2985	0.0232	0.0728
AID362red	0.1264	-0.0012	0.0000
AID373AID439red	0.0002	0.0000	0.0000
AID373red	0.0010	0.0000	0.0000
AID456red	0.2976	0.0040	0.0451
AID604	0.0035	0.0000	0.0000
AID604AID644_AllRed	0.4944	0.0000	0.0000
AID687AID721red	0.6075	0.0013	0.0253
AID687red	0.5517	0.0041	0.0320
AID688red	0.5230	0.0026	0.0144
AID721morered	0.1818	0.0000	0.0000
AID721red	0.3250	0.0690	0.1890
AID746AID1284red	0.0010	0.0000	0.0000
AID746red	0.0060	0.0000	0.0000
aids	0.6184	0.2485	0.2613
air_pollution	0.0826	0.0000	0.0000
alcohol	0.1569	0.0350	0.0532
all-aml	0.2500	0.0000	0.0000
anneal	0.2960	0.1202	0.1491
antivirus	0.1591	0.0000	0.0000
anuran-f-b	0.4501	-0.0164	0.0000
anxiety	0.1202	0.0134	0.0135
apple-quality	0.6500	0.3100	0.3193
aps-failure	0.4924	0.0000	0.0000
arabidopsis1%	0.0078	0.0000	0.0000
arcene	0.2857	0.0000	0.0000
arrhythmia	0.4360	0.4011	0.4841
auction	0.1319	-0.0320	0.0000
audiology	0.7155	0.6333	0.6425
audit-risk	0.2427	-0.1580	0.0000
autism-adolescent	0.8036	0.6071	0.6071
autism-adult	0.4243	-0.0108	0.0000
autism-child	0.2909	-0.3341	0.0000
autos	0.3810	0.2233	0.2401
avila	0.5043	0.4112	0.4280
balance	0.6218	0.7927	0.7941
bank	0.7112	0.3340	0.3769
bankruptcy	0.9132	0.8276	0.8402
bio	0.4915	0.0000	0.0000
biodeg	0.3181	-0.3606	0.0000
biomed	0.4952	0.1860	0.3203
Continued on next page			

Dataset	F1-macro	Kappa	MCC
bitcoin10%	0.2012	0.0042	0.0425
body-perf	0.6513	0.5524	0.5526
brain-tumor	0.4992	0.0091	0.0088
breast-cancer	0.4750	-0.0500	0.0000
breast-cancer-ma	0.3547	0.0000	0.0000
breast-tissue	0.4833	0.4388	0.4480
bridges	0.4643	0.2683	0.3016
bub12at310k-hg16-17	0.6902	0.2800	0.3557
cad	0.6250	0.2537	0.2566
cancer	0.4769	-0.0281	0.0000
cancer-uae	0.3213	0.0117	0.0123
car-insurance	0.4882	-0.0272	0.0000
cardiotocography-nsp	0.0848	-0.0690	0.0000
cardiovascular	0.3322	0.0000	0.0000
cargo2k	0.8869	0.8365	0.8476
cars	0.3087	0.0336	0.0416
ccds10%	0.0369	0.0000	0.0000
cdc_diabetes	0.3005	0.0000	0.0000
census	0.4727	0.0000	0.0000
cervical-B	0.1418	-0.0880	0.0000
cervical-H	0.1045	0.0060	0.0549
cervical-S	0.1278	-0.0612	0.0000
children-anemia	0.3876	0.1643	0.1628
chrom19	0.4973	0.0000	0.0000
chrom211%	0.4940	0.0000	0.0000
churn	0.5422	0.0979	0.1032
cjs	0.0550	-0.0985	0.0000
ckd	1.0000	1.0000	1.0000
clave	0.5564	0.6776	0.6900
cll_sub_111	0.0943	0.0000	0.0000
cmc	0.3292	0.0048	0.0048
cnae-9	0.0225	0.0000	0.0000
codon_usage	0.4526	0.4620	0.4659
coil20	0.0047	0.0000	0.0000
college	0.8504	0.7009	0.7013
collins	0.2675	0.2832	0.2900
colon-tumor	0.2500	0.0000	0.0000
colposcopies-1	0.4952	0.1271	0.2605
colposcopies-2	0.3830	0.0000	0.0000
colposcopies-4	0.6375	0.3256	0.4410
colposcopies-5	0.4423	-0.0610	0.0000
colposcopies-c	0.7583	0.5323	0.6022
column-2c	0.4364	-0.1222	0.0000
column-3c	0.5714	0.3372	0.3394
connect-4	0.0069	0.0000	0.0000
coupon	0.6837	0.3540	0.3567
covtype	0.0757	0.0000	0.0000
covtypeCD	0.1485	-0.0877	0.0000
covtypeT	0.7398	0.3355	0.4304
crabs	0.2330	0.0000	0.0000
creditcard_trans	0.4992	0.0000	0.0000
crowdsourced	0.7610	0.7646	0.7572
cryotherapy	0.6494	0.3721	0.4781
cultivars	0.4844	0.5484	0.5557
cybersecurity	0.1598	-0.0057	0.0000
cyclopentane	0.4414	-0.1157	0.0000
cylinder-bands	0.2987	0.0000	0.0000
datatrieve	0.0714	0.0000	0.0000
Continued on next page			

Dataset	F1-macro	Kappa	MCC
dating	0.0184	0.0000	0.0000
dbworld	0.3636	0.0000	0.0000
default	0.6654	0.3050	0.3365
dementia	1.0000	1.0000	1.0000
deposit	0.7000	0.3142	0.3841
depressed	0.4998	0.0112	0.0118
dermatology	0.9429	0.9325	0.9325
desharnais	0.6000	0.5294	0.5294
df_final	0.5766	0.4074	0.4273
DIA	0.5094	0.0556	0.0641
diabetes-100k	0.4677	0.0000	0.0000
diagnosis	0.2448	-0.5000	0.0000
diamonds	0.0754	-0.2017	0.0000
diamonds_all	0.4834	0.4211	0.4367
dishonest	1.0000	1.0000	1.0000
dlbcl-nih	0.3684	0.0000	0.0000
dlbcl-stanford	0.2857	0.0000	0.0000
dna0.1%	0.5952	0.0139	0.0666
dota2	0.3269	0.0000	0.0000
drebin	0.6848	0.4142	0.4762
dropout	0.4806	0.3133	0.3160
ecoli	0.3336	0.2729	0.3213
ecoliCP-IM	0.3636	-0.1846	0.0000
ecoliM	0.3327	-0.0804	0.0000
ecoliMU	0.2396	0.0351	0.1336
ecoliOM	0.1507	0.0128	0.0803
ecommerce	0.3197	0.0926	0.0930
euthyroid	0.0978	-0.0043	0.0000
fakenews	0.4892	-0.0207	0.0000
fbis-wc	0.0042	0.0000	0.0000
finance	0.4711	0.1023	0.1753
financial-risk	0.3473	0.4236	0.4777
flags	0.4255	0.6091	0.6292
forest	0.6463	0.5476	0.5682
gas	0.0978	-0.0838	0.0000
gastrointestinal	0.2222	0.0000	0.0000
gender	0.2400	-0.0369	0.0000
german	0.4926	0.0172	0.0187
gestures	0.8411	0.7825	0.7859
gina	0.3288	0.0000	0.0000
gisette	0.9122	0.8138	0.8479
glass	0.3889	0.2184	0.2803
glass-g2	0.4667	0.1579	0.2928
glassBWFP	0.3259	-0.0380	0.0000
glassBWNFP	0.1923	-0.2000	0.0000
glassContainers	0.0833	0.0000	0.0000
glassNW	0.2364	-0.1507	0.0000
glassTableware	0.0909	0.0045	0.0476
GlaucomaM	0.8421	0.6851	0.6889
gli_85	0.2006	0.0000	0.0000
glioma	0.1905	0.0000	0.0000
glioma-grade	0.2597	-0.4750	0.0000
green	0.6875	0.4118	0.5092
gsalc	0.0606	0.0000	0.0000
haberman	0.4007	-0.1333	0.0000
hapt	0.0012	0.0000	0.0000
har	0.2170	0.0138	0.0142
harth10%	0.5464	0.6579	0.6558
Continued on next page			

Dataset	F1-macro	Kappa	MCC
health-activity	0.2175	0.0000	0.0000
heart	0.7033	0.4346	0.4798
heart-c	0.8331	0.6667	0.6682
heart-failure	0.6488	0.2943	0.2946
heart-quantum	0.4900	0.0876	0.1117
hepatitis	0.4444	0.0476	0.0680
higher	0.2348	0.2174	0.2459
hinselmann	0.4118	-0.1538	0.0000
hitters	0.5934	0.1938	0.1972
hiv1-proteasa	0.4365	0.0081	0.0110
hiva	0.0341	0.0000	0.0000
horse	0.2880	0.0222	0.0245
hotel-reservartions	0.3963	0.0000	0.0000
hr	0.4633	0.0000	0.0000
ht-sensor	0.1677	0.0000	0.0000
htru2	0.0866	-0.1062	0.0000
hypothyroid	0.0357	-0.0124	0.0000
immuno-therapy	0.5000	0.0526	0.0598
ionosphere	0.2844	0.0266	0.1161
iris	0.2074	-0.1538	0.0000
irish	0.1477	-0.7045	0.0000
isolet	0.0029	0.0000	0.0000
jm1	0.4099	-0.0357	0.0000
jvowels	0.6923	0.6408	0.6582
kc1-class-level-numericdefect	0.1000	-0.1700	0.0000
kc1-class-level-top5percentDF	0.4444	0.1176	0.2500
kc2	0.4715	-0.0205	0.0000
kdc-4007	0.0349	0.0000	0.0000
kddcup991%	0.6012	0.6183	0.6558
kidney	0.1770	0.0000	0.0000
kidney-disease	0.4265	-0.0159	0.0000
la2s-wc	0.0313	0.0000	0.0000
labor	0.4857	0.1818	0.3162
leaf	0.5025	0.5380	0.5495
led24	0.6444	0.6023	0.6092
lenses	1.0000	1.0000	1.0000
letter	0.8966	0.9000	0.8971
linkage1%	0.9970	0.9932	0.9999
loan	0.6091	0.2183	0.2183
lrs	0.5653	0.6301	0.6396
lung_discrete	0.7600	0.8367	0.8549
lymphography	0.3889	0.2632	0.3258
lymphoma2	0.1026	0.0000	0.0000
machine-failure	0.7209	0.4619	0.5034
magic04	0.5309	0.0753	0.0769
malware	0.1591	0.0000	0.0000
mammography	0.3870	-0.1574	0.0000
marketing	0.1848	0.0084	0.0430
mba	0.2148	-0.0356	0.0000
mental-disorders	0.8310	0.7778	0.7851
messidor	0.5130	0.0402	0.0414
meter-A	1.0000	1.0000	1.0000
meter-B	0.1929	-0.1653	0.0000
meter-C	0.0278	-0.0929	0.0000
meter-D	0.0667	-0.0549	0.0000
mfeat-fac	0.7549	0.7389	0.7427
mfeat-fou	0.6166	0.5833	0.5854
mfeat-kar	0.6807	0.6667	0.6711
Continued on next page			

Dataset	F1-macro	Kappa	MCC
mfeat-mor	0.0296	-0.0722	0.0000
mfeat-pix	0.7341	0.7278	0.7333
mfeat-zer	0.6471	0.6333	0.6366
mice-prot	0.7496	0.7245	0.7288
milk	0.8826	0.8309	0.8449
mines	0.4786	0.3391	0.3421
mobile	0.8429	0.8367	0.8245
monks-1	0.5833	0.2060	0.2286
monks-3	0.4531	-0.0811	0.0000
mushroom	1.0000	1.0000	1.0000
music	0.4665	0.3412	0.3406
MUT_ci300400a_cdk_ECFP2	0.2910	0.0000	0.0000
MUT_ci300400a_cdk_ECFP4	0.2974	0.0000	0.0000
MUT_ci300400a_cdk_ECFP6	0.2908	0.0000	0.0000
MUT_ci300400a_cdk_ESTATE	0.6921	0.3860	0.3776
MUT_ci300400a_cdk_EXTENDED	0.2968	0.0000	0.0000
MUT_ci300400a_cdk_FCFP2	0.6858	0.3910	0.4087
MUT_ci300400a_cdk_FCFP4	0.2963	0.0000	0.0000
MUT_ci300400a_cdk_FCFP6	0.2930	0.0000	0.0000
MUT_ci300400a_cdk_MACCS	0.6241	0.2958	0.3236
MUT_ci300400a_cdk_PUBCHEM	0.2975	0.0000	0.0000
MUT_ci300400a_cdk_STANDARD	0.2947	0.0000	0.0000
MUT_ci300400a_rdkit_descriptors	0.4294	0.0414	0.0633
myocardial	0.1142	0.0000	0.0000
naticusdroid	0.9307	0.8517	0.8446
nci9	0.0476	0.0000	0.0000
ncRNA10%	0.0457	0.0000	0.0000
neo	0.4723	0.0000	0.0000
new-thyroid	0.2111	0.0556	0.1015
new-thyroidT	0.0455	-0.2069	0.0000
newspop	0.6589	0.2951	0.2939
NHANES_age_prediction	0.2258	-0.2281	0.0000
nomao	0.8988	0.7958	0.7901
nursery	0.9415	0.9698	0.9703
obesity	0.1355	0.0209	0.0217
obs	0.4977	0.3592	0.3747
oh0-wc	0.0112	0.0000	0.0000
oh10-wc	0.0208	0.0000	0.0000
oh15-wc	0.0124	0.0000	0.0000
oh5-wc	0.0143	0.0000	0.0000
olive	0.3478	0.2968	0.3179
optdigits	0.9615	0.9544	0.9523
orlraws10P	0.0182	0.0000	0.0000
ozone1hr	0.5248	0.0510	0.0520
p53-mutants10%	0.4949	0.0000	0.0000
parkinson	0.5581	0.1529	0.1668
particle	0.8656	0.7241	0.7481
pc1	0.2905	-0.0358	0.0000
pcmac	0.2916	0.0000	0.0000
pediatric-leukemia	0.0159	0.0000	0.0000
pendigits	0.7681	0.7375	0.7479
period-10f	0.6494	0.3077	0.3162
persistence	0.6815	0.3631	0.3631
personalities	0.0074	0.0000	0.0000
pet-adoption	0.6128	0.2263	0.2268
phishing	0.4302	-0.1150	0.0000
PhiUSIL10%	0.3678	0.0000	0.0000
phy	0.6990	0.3611	0.3665
Continued on next page			

Dataset	F1-macro	Kappa	MCC
pima	0.5510	0.1103	0.1126
pirvision	0.0864	-0.1854	0.0000
placement	0.4722	-0.0414	0.0000
plrx	0.5000	0.0137	0.0141
polya	0.4947	0.0038	0.0038
popularity	0.4792	0.1912	0.2229
post-operative	0.3250	-0.1250	0.0000
postures	0.9431	0.9082	0.9029
pred-tox_mutagen_ref-desc	0.4205	-0.0588	0.0000
prestige	0.3667	0.1964	0.2883
primary-tumor	0.3108	0.2652	0.2690
processed	0.4064	0.0000	0.0000
profb	0.6135	0.2726	0.3306
promoters	0.8990	0.8000	0.8165
puc-rio	0.9740	0.9692	0.9633
pufs-1281%	0.3407	0.0000	0.0000
pufs-6410%	0.3342	0.0000	0.0000
pulsar	0.1153	-0.0920	0.0000
raisin	0.1900	-0.6000	0.0000
rejafada	0.4830	-0.0386	0.0000
relathe	0.3520	0.0000	0.0000
rice	0.0278	-0.9363	0.0000
rocket	0.3970	-0.0755	0.0000
RT_IOT2022	0.0053	0.0000	0.0000
satimage	0.8440	0.8396	0.8635
scadi	0.6600	0.6316	0.6860
schiller	0.4000	-0.1739	0.0000
sclerosis	0.9628	0.9256	0.9282
secom	0.4817	0.0000	0.0000
secondary_mushroom	0.3576	0.0000	0.0000
seeds	0.0000	-0.5000	0.0000
segment	0.0452	-0.1126	0.0000
segmentation	0.7151	0.4580	0.5264
segmentO	0.1343	-0.0463	0.0000
seismic	0.1313	-0.0134	0.0000
sens-2-gram	0.1848	-0.0060	0.0000
sens-3-gram	0.3306	-0.0235	0.0000
sens-4-gram	0.4648	0.0000	0.0000
sensorless	0.9574	0.9646	0.9552
shoppers	0.4145	-0.0369	0.0000
sick	0.1873	-0.0876	0.0000
sirtuin6	0.8990	0.8000	0.8165
smarket	0.7575	0.5316	0.5726
smk_can_187	0.3250	0.0000	0.0000
smoking	0.3987	0.0000	0.0000
soil_pollution	0.2158	0.0275	0.0277
solar-flare	0.4980	0.5264	0.5277
sonar	0.6011	0.3000	0.4201
soybean	0.7290	0.6508	0.6566
spam-detection	0.0741	-0.1355	0.0000
spambase	0.3435	-0.2320	0.0000
spect	0.5091	0.0270	0.0279
spectf	0.5536	0.1463	0.1704
spectrometer	0.1866	0.2391	0.2607
squash-unstored	1.0000	1.0000	1.0000
startup	0.6697	0.3414	0.3436
steel_industry	0.7522	0.6435	0.6566
stellar	0.9133	0.8457	0.8694
Continued on next page			

Dataset	F1-macro	Kappa	MCC
stock	0.5464	0.1617	0.2537
stockb	0.0570	-0.3880	0.0000
streaming	0.6902	0.3809	0.3815
stress	0.0000	-0.2485	0.0000
student-depression	0.8166	0.6442	0.6638
student-habits	0.1854	-0.0117	0.0000
student-lifestyle	0.1666	-0.0570	0.0000
student-weekend	0.1684	0.0747	0.0904
student-workday	0.1651	0.0000	0.0000
studentap	0.5091	0.2778	0.2805
swarm_aligned	0.4028	0.0000	0.0000
swarm_flocking	0.3315	0.0000	0.0000
swarm_grouped	1.0000	0.9907	0.9814
tae	0.4370	0.2000	0.2357
telco-churn	0.7971	0.6056	0.6319
texture	0.4488	0.3952	0.4008
theorem	0.3420	-0.2942	0.0000
thoracic	0.2763	0.0499	0.1600
Thyroid_Diff	0.1836	-0.3603	0.0000
tis	0.1956	0.0000	0.0000
titanic	0.6483	0.3431	0.4314
tourist	0.5000	0.6364	0.6848
trains	0.3369	0.0000	0.0000
transfusion	0.4179	-0.1310	0.0000
tuandromd	0.8192	0.6306	0.6783
turkish	0.0898	-0.2000	0.0000
tvnews	0.2646	0.0000	0.0000
ur3_cobotops_grip	0.1286	-0.0160	0.0000
ur3_cobotops_stop	0.1373	-0.0208	0.0000
urban	0.7403	0.7187	0.7226
ustilago10%	0.0106	0.0000	0.0000
vehicle	0.6165	0.5124	0.5251
vote	0.6038	0.2114	0.2135
vowel	0.0107	-0.0889	0.0000
wap-wc	0.0013	0.0000	0.0000
warpar10p	0.0267	0.0000	0.0000
warppie10p	0.0174	0.0000	0.0000
waveform	0.8405	0.7428	0.7608
weather-related	0.3618	0.2466	0.2536
weight-lift	0.8556	0.7775	0.8027
white-clover	0.3333	-0.2857	0.0000
wifi-loc	0.2499	0.0000	0.0000
wilt	0.0519	0.0004	0.0147
wine	1.0000	1.0000	1.0000
winequality-red	0.1645	0.0554	0.0635
winequality-white	0.1815	0.0753	0.0842
winnipeg10%	0.8901	0.9222	0.9537
wisc.bc	0.9623	0.9246	0.9246
yale	0.0078	0.0000	0.0000
yeast	0.2913	0.2344	0.2336
yeastCYT-POX	0.1166	-0.0364	0.0000
yeastEXC	0.3831	0.0294	0.0881
yeastME1	0.3432	-0.0021	0.0000
yeastME2	0.3402	-0.0186	0.0000
zip	0.8743	0.8701	0.8599

Table 28: Detailed results for NCA

Dataset	F1-macro	Kappa	MCC
abalone	0.0920	0.0833	0.0855
abalone19	0.4982	0.0000	0.0000
accelerometer	0.6653	0.2234	0.2885
ads	0.9482	0.8950	0.8963
adult	0.7762	0.5430	0.5515
advanced-iot	1.0000	1.0000	1.0000
AID_1431	0.4772	0.0000	0.0000
AID_1431_KlekotaRothFingerprinter	0.4772	0.0000	0.0000
AID_1431_MACCSFingerprinter	0.4772	0.0000	0.0000
AID_1878	0.5990	0.1975	0.1979
AID_602330	0.4894	0.0000	0.0000
AID_652128	0.3099	-0.0166	0.0000
AID1284red	0.5863	0.1628	0.1695
AID1608Morered	0.4772	-0.0311	0.0000
AID1608red	0.4798	-0.0300	0.0000
AID362red	0.4965	0.0000	0.0000
AID373AID439red	0.5000	0.0000	0.0000
AID373red	0.4997	0.0000	0.0000
AID456red	0.4992	0.0000	0.0000
AID604	0.9450	0.8885	0.8899
AID604AID644_AllRed	0.4997	0.0000	0.0000
AID687AID721red	0.4998	0.0000	0.0000
AID687red	0.4992	0.0000	0.0000
AID688red	0.4977	0.0000	0.0000
AID721morered	0.4375	0.0000	0.0000
AID721red	0.4375	0.0000	0.0000
AID746AID1284red	0.4997	0.0000	0.0000
AID746red	0.6089	0.0520	0.1168
aids	0.7759	0.5518	0.5519
air_pollution	0.1643	0.0185	0.0475
alcohol	0.7805	0.7225	0.7235
all-aml	1.0000	1.0000	1.0000
anneal	0.9872	0.9766	0.9769
antivirus	0.9554	0.9068	0.9108
anuran-f-b	0.9626	0.9224	0.9252
anxiety	0.1130	-0.0030	0.0000
apple-quality	0.9328	0.8650	0.8655
aps-failure	0.8564	0.7095	0.7123
arabidopsis1%	0.7577	0.3618	0.4699
arcene	0.6687	0.3463	0.3514
arrhythmia	0.3613	0.4161	0.4256
auction	0.9777	0.9544	0.9554
audiology	0.3372	0.7461	0.7529
audit-risk	0.9736	0.9459	0.9473
autism-adolescent	0.8036	0.6071	0.6071
autism-adult	0.9114	0.8223	0.8229
autism-child	0.8619	0.7238	0.7238
autos	0.7933	0.9340	0.9372
avila	0.9969	0.9981	0.9981
balance	0.9284	0.9123	0.9128
bank	0.7256	0.4302	0.4468
bankruptcy	1.0000	1.0000	1.0000
bio	0.4978	0.0000	0.0000
biodeg	0.8403	0.6800	0.6805
biomed	1.0000	1.0000	1.0000
Continued on next page			

Dataset	F1-macro	Kappa	MCC
bitcoin10%	0.0458	0.0047	0.0343
body-perf	0.7248	0.6219	0.6281
brain-tumor	0.4960	-0.0080	0.0000
breast-cancer	0.4291	-0.1395	0.0000
breast-cancer-ma	0.4500	-0.1000	0.0000
breast-tissue	0.7179	0.6733	0.6869
bridges	0.6636	0.7297	0.7404
bub12at310k-hg16-17	0.6288	0.1658	0.2190
cad	1.0000	1.0000	1.0000
cancer	0.9841	0.9677	0.9682
cancer-uae	0.3415	-0.0175	0.0000
car-insurance	0.8035	0.6066	0.6069
cardiotocography-nsp	0.8159	0.7274	0.7412
cardiovascular	0.6708	0.3474	0.3468
cargo2k	0.9875	0.9809	0.9810
cars	0.7406	0.5735	0.5743
ccds10%	0.6629	0.0783	0.1869
cdc_diabetes	0.4128	0.1494	0.2031
census	0.4819	0.0000	0.0000
cervical-B	0.8208	0.6417	0.6417
cervical-H	0.7090	0.4142	0.4170
cervical-S	0.8041	0.5857	0.6047
children-anemia	0.8869	0.8657	0.8657
chrom19	0.9062	0.8270	0.8302
chrom211%	0.4998	0.0000	0.0000
churn	0.7378	0.4521	0.4721
cjs	0.9933	0.9913	0.9913
ckd	1.0000	1.0000	1.0000
clave	0.7621	0.7658	0.7671
cll_sub_111	0.6342	0.3042	0.3061
cmc	0.4801	0.2193	0.2202
cnae-9	0.8732	0.8542	0.8553
codon_usage	0.8465	0.9264	0.9265
coil20	0.9933	0.9927	0.9927
college	0.8873	0.7742	0.7746
collins	0.5005	0.5793	0.5829
colon-tumor	0.5000	0.0000	0.0000
colposcopies-1	0.5421	0.0842	0.0842
colposcopies-2	0.5155	0.0308	0.0309
colposcopies-4	0.7688	0.5118	0.5353
colposcopies-5	0.6238	0.2077	0.2360
colposcopies-c	0.5851	0.1655	0.1692
column-2c	0.9262	0.8524	0.8524
column-3c	0.6222	0.4833	0.4833
connect-4	0.9914	0.9898	0.9899
coupon	0.7351	0.4701	0.4701
covtype	0.0940	0.0000	0.0000
covtypeCD	0.9853	0.9705	0.9705
covtypeT	0.9530	0.9059	0.9059
crabs	1.0000	1.0000	1.0000
creditcard_trans	0.9229	0.8556	0.8598
crowdsourced	0.8707	0.9139	0.9140
cryotherapy	0.6750	0.3415	0.3500
cultivars	0.5350	0.6787	0.6849
cybersecurity	0.1568	-0.0113	0.0000
cyclopentane	0.5084	0.0168	0.0169
cylinder-bands	0.7513	0.4993	0.5027
datatrieve	0.4583	-0.0833	0.0000

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Dataset	F1-macro	Kappa	MCC
dating	0.1072	0.0080	0.0080
dbworld	0.3636	0.0000	0.0000
default	0.7000	0.3622	0.3934
dementia	1.0000	1.0000	1.0000
deposit	0.7062	0.3884	0.4070
depressed	0.5539	0.0710	0.0927
dermatology	0.9429	0.9325	0.9325
desharnais	0.4037	0.2727	0.2818
df_final	0.6018	0.3086	0.3383
DIA	0.8222	0.6444	0.6444
diabetes-100k	0.6903	0.2266	0.3126
diagnosis	1.0000	1.0000	1.0000
diamonds	1.0000	1.0000	1.0000
diamonds_all	0.6825	0.5793	0.5894
dishonest	1.0000	1.0000	1.0000
dlbcl-nih	0.2903	-0.4118	0.0000
dlbcl-stanford	0.8333	0.6154	0.6667
dna0.1%	0.4993	0.0000	0.0000
dota2	0.3413	0.0000	0.0000
drebin	0.9886	0.9771	0.9772
dropout	0.6007	0.4859	0.4863
ecoli	0.5305	0.7545	0.7582
ecoliCP-IM	1.0000	1.0000	1.0000
ecoliM	0.9175	0.8350	0.8350
ecoliMU	0.6033	0.2029	0.2055
ecoliOM	0.8514	0.6526	0.6960
ecommerce	0.2505	0.0011	0.0011
euthyroid	0.8960	0.7914	0.7919
fakenews	0.5378	0.0754	0.0755
fbis-wc	0.7044	0.7395	0.7432
finance	0.7648	0.5135	0.5294
financial-risk	0.8055	0.7365	0.7367
flags	0.1608	0.1333	0.1494
forest	0.8846	0.8678	0.8682
gas	0.9952	0.9939	0.9939
gastrointestinal	0.5916	0.3846	0.3872
gender	0.3865	0.1700	0.1821
german	0.6625	0.3128	0.3240
gestures	0.8062	0.7318	0.7355
gina	0.9164	0.8327	0.8329
gisette	0.9614	0.9229	0.9229
glass	0.8846	0.7325	0.7397
glass-g2	1.0000	1.0000	1.0000
glassBWFP	0.8990	0.7981	0.7981
glassBWNFP	0.7427	0.4828	0.4854
glassContainers	1.0000	1.0000	1.0000
glassNW	0.9340	0.8591	0.8677
glassTableware	0.4884	0.0000	0.0000
GlaucomaM	0.6841	0.3596	0.3680
gli_85	1.0000	1.0000	1.0000
glioma	0.6250	0.7059	0.7500
glioma-grade	0.8949	0.7840	0.7897
green	0.6098	0.2105	0.2182
gsalc	0.9167	0.8657	0.8788
haberman	0.6058	0.1892	0.2070
hapt	0.8536	0.9611	0.9611
har	0.9949	0.9942	0.9942
harth10%	0.0521	0.0000	0.0000
Continued on next page			

Dataset	F1-macro	Kappa	MCC
health-activity	0.2175	0.0000	0.0000
heart	0.7284	0.4553	0.4567
heart-c	0.7681	0.5249	0.5361
heart-failure	0.9697	0.9391	0.9394
heart-quantum	0.9249	0.8387	0.8498
hepatitis	0.6377	0.2424	0.2722
higher	0.1522	0.1250	0.1429
hinselmann	0.4444	0.0000	0.0000
hitters	0.9373	0.8745	0.8745
hiv1-proteasa	0.7954	0.5878	0.5905
hiva	0.4904	-0.0045	0.0000
horse	0.5102	0.2297	0.2640
hotel-reservartions	0.8566	0.7031	0.7130
hr	0.5258	0.0514	0.0516
ht-sensor	0.1834	0.0000	0.0000
htru2	0.9354	0.8682	0.8707
hypothyroid	0.5932	0.7417	0.7457
immuno-therapy	0.4000	-0.1739	0.0000
ionosphere	0.9346	0.8606	0.8690
iris	0.7722	0.6939	0.6987
irish	1.0000	1.0000	1.0000
isolet	0.8928	0.8865	0.8867
jm1	0.6518	0.2286	0.2825
jvowels	0.9976	0.9977	0.9977
kc1-class-level-numericdefect	0.0307	0.0667	0.0696
kc1-class-level-top5percentDF	0.4828	0.0000	0.0000
kc2	0.6929	0.3824	0.3854
kdc-4007	0.3535	0.1540	0.2468
kddcup991%	0.5457	0.9979	0.9979
kidney	0.1778	0.0000	0.0000
kidney-disease	1.0000	1.0000	1.0000
la2s-wc	0.8662	0.8452	0.8278
labor	0.8537	0.6667	0.7071
leaf	0.4239	0.6934	0.7042
led24	0.6240	0.6078	0.6165
lenses	1.0000	1.0000	1.0000
letter	0.9800	0.9792	0.9792
linkage1%	0.9879	0.9755	0.9758
loan	0.9550	0.9096	0.9100
lrs	0.5137	0.7651	0.7709
lung_discrete	0.6767	0.8462	0.8629
lymphography	0.6830	0.7500	0.7779
lymphoma2	0.6667	1.0000	1.0000
machine-failure	0.8382	0.6750	0.6764
magic04	0.8490	0.6829	0.6977
malware	1.0000	1.0000	1.0000
mammography	0.8430	0.6859	0.6860
marketing	0.6979	0.3958	0.3958
mba	0.3743	0.0772	0.1030
mental-disorders	0.5261	0.4444	0.4573
messidor	0.6205	0.2410	0.2410
meter-A	0.8873	0.7500	0.7746
meter-B	1.0000	1.0000	1.0000
meter-C	0.7765	0.6883	0.6914
meter-D	0.8451	0.7682	0.7925
mfeat-fac	0.9658	0.9611	0.9614
mfeat-fou	0.7848	0.7611	0.7612
mfeat-kar	0.9810	0.9778	0.9779
Continued on next page			

Dataset	F1-macro	Kappa	MCC
mfeat-mor	0.7487	0.7111	0.7124
mfeat-pix	0.9807	0.9778	0.9780
mfeat-zer	0.8068	0.7833	0.7835
mice-prot	1.0000	1.0000	1.0000
milk	1.0000	1.0000	1.0000
mines	0.7482	0.7043	0.7067
mobile	0.7081	0.7009	0.7016
monks-1	1.0000	1.0000	1.0000
monks-3	0.9824	0.9642	0.9648
mushroom	1.0000	1.0000	1.0000
music	0.5076	0.3835	0.3930
MUT_ci300400a_cdk_ECFP2	0.7831	0.5659	0.5662
MUT_ci300400a_cdk_ECFP4	0.7840	0.5673	0.5679
MUT_ci300400a_cdk_ECFP6	0.7768	0.5535	0.5536
MUT_ci300400a_cdk_ESTATE	0.7605	0.5209	0.5209
MUT_ci300400a_cdk_EXTENDED	0.8487	0.6974	0.6974
MUT_ci300400a_cdk_FCFP2	0.7695	0.5384	0.5391
MUT_ci300400a_cdk_FCFP4	0.7603	0.5206	0.5207
MUT_ci300400a_cdk_FCFP6	0.7722	0.5417	0.5444
MUT_ci300400a_cdk_MACCS	0.8360	0.6719	0.6719
MUT_ci300400a_cdk_PUBCHEM	0.8292	0.6578	0.6583
MUT_ci300400a_cdk_STANDARD	0.8389	0.6766	0.6778
MUT_ci300400a_rdkit_descriptors	0.8358	0.6715	0.6716
myocardial	0.3102	0.3867	0.4911
naticusdroid	0.9710	0.9420	0.9421
nci9	0.4444	0.6250	0.6901
ncRNA10%	0.5946	0.7810	0.7839
neo	0.6632	0.2337	0.2954
new-thyroid	1.0000	1.0000	1.0000
new-thyroidT	1.0000	1.0000	1.0000
newspop	0.6472	0.2944	0.2944
NHANES_age_prediction	0.9834	0.9662	0.9668
nomao	0.9489	0.8977	0.8978
nursery	0.7961	0.9910	0.9910
obesity	0.9317	0.9225	0.9230
obs	1.0000	1.0000	1.0000
oh0-wc	0.4320	0.3201	0.3486
oh10-wc	0.3483	0.2491	0.2632
oh15-wc	0.3173	0.2950	0.3027
oh5-wc	0.3380	0.2573	0.2725
olive	0.9385	0.9343	0.9362
optdigits	0.9813	0.9782	0.9783
orlraws10P	1.0000	1.0000	1.0000
ozone1hr	0.5776	0.1349	0.1467
p53-mutants10%	0.4992	0.0000	0.0000
parkinson	0.9831	0.9657	0.9663
particle	0.8675	0.7495	0.7510
pc1	0.4789	-0.0163	0.0000
pcmac	0.5032	0.0051	0.0062
pediatric-leukemia	0.7289	0.7421	0.7477
pendigits	0.9936	0.9929	0.9929
period-10f	0.6582	0.3077	0.3162
persistence	0.7235	0.4465	0.4471
personalities	0.9812	0.9762	0.9988
pet-adoption	0.9145	0.8243	0.8289
phishing	0.9786	0.9571	0.9571
PhiUSIIL10%	0.9926	0.9853	0.9853
phy	0.6963	0.3918	0.3926
Continued on next page			

Dataset	F1-macro	Kappa	MCC
pima	0.7023	0.3899	0.4040
pirvision	0.9977	0.9959	0.9959
placement	0.7793	0.5542	0.5584
plrx	0.5282	0.0526	0.0555
polya	0.7152	0.4295	0.4304
popularity	0.4131	0.2248	0.2364
post-operative	0.2381	-0.2000	0.0000
postures	0.9925	0.9907	0.9907
pred-tox_mutagen_ref-desc	0.6030	0.2059	0.2060
prestige	1.0000	1.0000	1.0000
primary-tumor	0.0846	0.1027	0.1058
processed	0.9099	0.8128	0.8222
profb	0.6549	0.3041	0.3097
promoters	0.9083	0.8000	0.8165
puc-rio	0.9886	0.9804	1.0000
pufs-1281%	0.5000	-0.0000	0.0000
pufs-6410%	0.3384	0.0000	0.0000
pulsar	0.9536	0.9057	0.9071
raisin	0.8904	0.7778	0.7809
rejabatada	0.4910	0.0000	0.0000
relathe	1.0000	1.0000	1.0000
rice	0.9834	0.9666	0.9668
rocket	0.6442	0.2873	0.2883
RT_IOT2022	0.9728	0.9819	0.9810
satimage	0.8952	0.8831	0.8832
scadi	0.4989	0.6316	0.6860
schiller	0.5950	0.1818	0.1890
sclerosis	1.0000	1.0000	1.0000
secom	0.4834	0.0000	0.0000
secondary_mushroom	1.0000	1.0000	1.0000
seeds	0.9553	0.9286	0.9317
segment	0.9566	0.9443	0.9444
segmentation	0.7580	0.5159	0.5160
segmentO	0.9916	0.9830	0.9831
seismic	0.4830	0.0000	0.0000
sens-2-gram	0.5853	0.1703	0.1706
sens-3-gram	0.5730	0.1444	0.1455
sens-4-gram	0.5657	0.1308	0.1313
sensorless	0.9988	0.9987	0.9987
shoppers	0.7752	0.5356	0.5484
sick	0.8892	0.7775	0.7783
sirtuin6	0.8276	0.6000	0.6547
smarket	0.9842	0.9680	0.9685
smk_can_187	0.5833	0.1453	0.1495
smoking	0.7681	0.5562	0.5482
soil_pollution	0.2394	0.0536	0.0537
solar-flare	0.6843	0.6657	0.6714
sonar	0.7185	0.4000	0.4364
soybean	0.9846	0.9516	0.9532
spam-detection	0.8430	0.6855	0.6860
spambase	0.9135	0.8269	0.8270
spect	0.7168	0.4304	0.4332
spectf	0.8928	0.7835	0.7856
spectrometer	0.3064	0.5809	0.5843
squash-unstored	0.2857	0.2308	0.3062
startup	0.9885	0.9767	0.9769
steel_industry	0.8406	0.7944	0.7944
stellar	0.9035	0.8331	0.8198
Continued on next page			

Dataset	F1-macro	Kappa	MCC
stock	0.7232	0.4303	0.4437
stockb	1.0000	1.0000	1.0000
streaming	0.9717	0.9434	0.9435
stress	1.0000	1.0000	1.0000
student-depression	0.8244	0.6462	0.6487
student-habits	0.2754	0.0542	0.0543
student-lifestyle	0.3505	0.3635	0.3714
student-weekend	0.1873	0.0429	0.0435
student-workday	0.2513	0.2068	0.2100
studentap	0.5111	0.2909	0.2909
swarm_aligned	1.0000	1.0000	1.0000
swarm_flocking	1.0000	1.0000	1.0000
swarm_grouped	1.0000	1.0000	1.0000
tae	0.6082	0.4000	0.4027
telco-churn	0.8309	0.6616	0.6617
texture	0.9965	0.9960	0.9960
theorem	0.9950	0.9899	0.9899
thoracic	0.4535	-0.0387	0.0000
Thyroid_Diff	0.9365	0.8648	0.8728
tis	0.4294	0.0000	0.0000
titanic	0.7714	0.5247	0.5418
tourist	0.4375	0.6364	0.6848
trains	0.3333	0.0000	0.0000
transfusion	0.5282	0.0517	0.0551
tuandromd	0.9796	0.9589	0.9593
turkish	0.7547	0.6667	0.6729
tvnews	0.9277	0.8646	0.8902
ur3_cobotops_grip	0.7978	0.5686	0.5904
ur3_cobotops_stop	0.7942	0.5860	0.5880
urban	0.8180	0.7560	0.7582
ustilago10%	0.6730	0.0330	0.1295
vehicle	0.7458	0.6968	0.7025
vote	0.9069	0.8139	0.8139
vowel	0.6460	0.5889	0.5961
wap-wc	0.3254	0.4265	0.4467
warpar10p	0.5600	0.5695	0.5977
warppie10p	1.0000	1.0000	1.0000
waveform	0.7599	0.6400	0.6400
weather-related	0.9759	0.9717	0.9717
weight-lift	0.9930	0.9916	0.9916
white-clover	0.2500	0.0000	0.0000
wifi-loc	0.9901	0.9867	0.9867
wilt	0.9609	0.9187	0.9218
wine	0.9410	0.9006	0.9064
winequality-red	0.3170	0.4245	0.4258
winequality-white	0.3657	0.4605	0.4612
winnipeg10%	0.9976	0.9961	0.9961
wisc.bc	0.9817	0.9627	0.9633
yale	0.7652	0.7983	0.8051
yeast	0.4158	0.4475	0.4561
yeastCYT-POX	0.6903	0.3691	0.3775
yeastEXC	0.6958	0.3799	0.3883
yeastME1	0.8546	0.6605	0.7022
yeastME2	0.7218	0.2410	0.3702
zip	0.9617	0.9614	0.9615

Table 29: Detailed results for ODRF

Dataset	F1-macro	Kappa	MCC
abalone	0.0000	-0.0200	0.0000
abalone19	0.4982	0.0000	0.0000
accelerometer	0.7158	0.3577	0.4090
ads	0.9615	0.9227	0.9230
adult	0.4328	0.0000	0.0000
advanced-iot	1.0000	1.0000	1.0000
AID_1431	0.4772	0.0000	0.0000
AID_1431_KlekotaRothFingerprinter	0.4772	0.0000	0.0000
AID_1431_MACCSFingerprinter	0.4772	0.0000	0.0000
AID_1878	0.6325	0.1393	0.2164
AID_602330	0.4894	0.0000	0.0000
AID_652128	0.3118	0.0000	0.0000
AID1284red	0.1220	0.0000	0.0000
AID1608Morered	0.0636	0.0000	0.0000
AID1608red	0.4850	0.0000	0.0000
AID362red	0.0138	0.0000	0.0000
AID373AID439red	0.5002	0.0000	0.0000
AID373red	0.0010	0.0000	0.0000
AID456red	0.4992	0.0000	0.0000
AID604	0.6188	0.0202	0.0876
AID604AID644_AllRed	0.4997	0.0000	0.0000
AID687AID721red	0.4998	0.0000	0.0000
AID687red	0.4992	0.0000	0.0000
AID688red	0.4977	0.0000	0.0000
AID721morered	0.1818	0.0000	0.0000
AID721red	0.1818	0.0000	0.0000
AID746AID1284red	0.0010	0.0000	0.0000
AID746red	0.5037	0.0000	0.0000
aids	0.8881	0.7671	0.7759
air_pollution	0.0826	0.0000	0.0000
alcohol	0.5736	0.6726	0.6808
all-aml	1.0000	1.0000	1.0000
anneal	0.0044	0.0000	0.0000
antivirus	0.1591	0.0000	0.0000
anuran-f-b	1.0000	1.0000	1.0000
anxiety	0.0459	-0.0244	0.0000
apple-quality	0.8939	0.7850	0.7879
aps-failure	0.4955	0.0000	0.0000
arabidopsis1%	0.4913	0.0000	0.0000
arcene	0.2857	0.0000	0.0000
arrhythmia	0.0085	0.0000	0.0000
auction	0.9664	0.9305	0.9327
audiology	0.0390	0.0000	0.0000
audit-risk	1.0000	1.0000	1.0000
autism-adolescent	0.2667	0.0000	0.0000
autism-adult	0.4215	0.0000	0.0000
autism-child	0.3409	0.0000	0.0000
autos	0.9024	0.8693	0.8721
avila	0.0857	0.2625	0.2742
balance	0.8450	0.9101	0.9139
bank	0.7592	0.5099	0.5169
bankruptcy	1.0000	1.0000	1.0000
bio	0.4978	0.0000	0.0000
biodeg	0.8885	0.7768	0.7770
biomed	1.0000	1.0000	1.0000
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Dataset	F1-macro	Kappa	MCC
bitcoin10%	0.0006	0.0000	0.0000
body-perf	0.7396	0.6488	0.6508
brain-tumor	0.5142	0.0258	0.0282
breast-cancer	0.7126	0.3824	0.4196
breast-cancer-ma	0.3529	0.0000	0.0000
breast-tissue	0.8470	0.7800	0.7879
bridges	0.0303	0.0000	0.0000
bub12at310k-hg16-17	0.4762	0.0000	0.0000
cad	1.0000	1.0000	1.0000
cancer	1.0000	1.0000	1.0000
cancer-uae	0.3004	-0.0389	0.0000
car-insurance	0.8095	0.6180	0.6189
cardiotocography-nsp	0.9090	0.8568	0.8571
cardiovascular	0.7383	0.4735	0.4767
cargo2k	1.0000	1.0000	1.0000
cars	0.7971	0.6983	0.7206
ccds10%	0.4862	0.0000	0.0000
cdc_diabetes	0.0119	0.0000	0.0000
census	0.4868	0.0000	0.0000
cervical-B	0.4819	0.0000	0.0000
cervical-H	0.4881	0.0000	0.0000
cervical-S	0.4756	0.0000	0.0000
children-anemia	0.9194	0.9080	0.9090
chrom19	0.9260	0.8529	0.8517
chrom211%	0.5039	0.0000	0.0000
churn	0.7626	0.5079	0.5231
cjs	0.0426	0.0000	0.0000
ckd	0.3939	0.0000	0.0000
clave	0.7445	0.7609	0.7626
cll_sub_111	0.0952	0.0000	0.0000
cmc	0.4991	0.2582	0.2584
cnae-9	0.0222	0.0000	0.0000
codon_usage	0.1305	0.1427	0.1578
coil20	0.0500	-0.0014	0.0000
college	0.8873	0.7742	0.7746
collins	0.0099	0.0000	0.0000
colon-tumor	0.7500	0.4000	0.5000
colposcopies-1	0.6487	0.2965	0.2974
colposcopies-2	0.7264	0.3176	0.4345
colposcopies-4	0.6667	0.3165	0.3310
colposcopies-5	0.4528	0.0000	0.0000
colposcopies-c	0.8054	0.5323	0.6022
column-2c	0.9634	0.9242	0.9269
column-3c	0.7007	0.6353	0.6364
connect-4	0.6352	0.4198	0.4953
coupon	0.3625	0.0000	0.0000
covtype	0.0763	0.0000	0.0000
covtypeCD	0.1202	0.0000	0.0000
covtypeT	0.4819	0.0000	0.0000
crabs	1.0000	1.0000	1.0000
creditcard_trans	0.9111	0.8409	0.8395
crowdsourced	0.8555	0.8706	0.8716
cryotherapy	0.8163	0.5714	0.6325
cultivars	0.0019	0.0010	0.0017
cybersecurity	0.1260	-0.0119	0.0000
cyclopentane	0.6250	0.2500	0.2500
cylinder-bands	0.2987	0.0000	0.0000
datatrieve	0.4800	0.0000	0.0000
Continued on next page			

Dataset	F1-macro	Kappa	MCC
dating	0.0183	0.0000	0.0000
dbworld	0.3636	0.0000	0.0000
default	0.7134	0.3930	0.4213
dementia	1.0000	1.0000	1.0000
deposit	0.7413	0.4662	0.4795
depressed	0.6649	0.0675	0.1869
dermatology	0.9429	0.9325	0.9325
desharnais	0.6377	0.7333	0.7702
df_final	0.1818	0.0000	0.0000
DIA	0.4286	0.0000	0.0000
diabetes-100k	0.4778	0.0000	0.0000
diagnosis	1.0000	1.0000	1.0000
diamonds	1.0000	1.0000	1.0000
diamonds_all	0.8043	0.7265	0.7284
dishonest	1.0000	1.0000	1.0000
dlbcl-nih	0.3684	0.0000	0.0000
dlbcl-stanford	1.0000	1.0000	1.0000
dna0.1%	0.0027	0.0000	0.0000
dota2	0.5644	0.1333	0.1400
drebin	0.2700	0.0000	0.0000
dropout	0.6694	0.5977	0.6032
ecoli	0.5599	0.8359	0.8380
ecoliCP-IM	1.0000	1.0000	1.0000
ecoliM	0.8825	0.7626	0.7650
ecoliMU	0.8167	0.6333	0.6333
ecoliOM	0.8514	0.6526	0.6960
ecommerce	0.3480	0.1180	0.1196
euthyroid	0.9082	0.8159	0.8164
fakenews	0.5116	0.0223	0.0231
fbis-wc	0.0019	0.0000	0.0000
finance	1.0000	1.0000	1.0000
financial-risk	0.6977	0.8108	0.8110
flags	0.0476	0.0000	0.0000
forest	0.9319	0.9203	0.9227
gas	0.9962	0.9956	0.9956
gastrointestinal	0.2222	0.0000	0.0000
gender	0.4511	0.1352	0.1535
german	0.3939	0.0000	0.0000
gestures	0.9268	0.9018	0.9023
gina	0.9481	0.8962	0.8962
gisette	0.9569	0.8973	0.9033
glass	0.5414	0.5828	0.6051
glass-g2	0.9392	0.8710	0.8783
glassBWFP	0.8467	0.6897	0.6934
glassBWNFP	0.7857	0.5714	0.5714
glassContainers	0.8483	0.6452	0.6901
glassNW	0.8662	0.6957	0.7303
glassTableware	1.0000	1.0000	1.0000
GlaucomaM	0.7389	0.4751	0.4778
gli_85	0.2000	0.0000	0.0000
glioma	0.6250	0.7059	0.7500
glioma-grade	0.8547	0.7085	0.7093
green	0.5238	0.0476	0.0476
gsalc	0.0606	0.0000	0.0000
haberman	0.6323	0.2593	0.2638
hapt	0.0012	0.0000	0.0000
har	0.9899	0.9884	0.9884
harth10%	0.0927	0.0038	0.0140
Continued on next page			

Dataset	F1-macro	Kappa	MCC
health-activity	0.2175	0.0000	0.0000
heart	0.8465	0.6842	0.6929
heart-c	0.9674	0.9327	0.9349
heart-failure	0.9722	0.9433	0.9444
heart-quantum	0.9194	0.8361	0.8389
hepatitis	0.8544	0.6667	0.7071
higher	0.1954	0.1195	0.1490
hinselmann	0.6875	0.3750	0.3750
hitters	0.9373	0.8745	0.8745
hiv1-proteasa	0.8174	0.6177	0.6330
hiva	0.4904	-0.0045	0.0000
horse	0.5568	0.3097	0.3648
hotel-reservartions	0.8875	0.7724	0.7749
hr	0.4633	0.0000	0.0000
ht-sensor	0.1650	0.0000	0.0000
htru2	0.9324	0.8635	0.8647
hypothyroid	0.7200	0.9350	0.9356
immuno-therapy	0.8333	0.6087	0.6614
ionosphere	0.9337	0.8674	0.8674
iris	0.9333	0.8993	0.9054
irish	1.0000	1.0000	1.0000
isolet	0.0412	0.0054	0.0054
jm1	0.6536	0.1993	0.2732
javowels	0.9850	0.9841	0.9841
kc1-class-level-numericdefect	0.2976	0.2353	0.2632
kc1-class-level-top5percentDF	0.4643	-0.0714	0.0000
kc2	0.6307	0.2589	0.2609
kdc-4007	0.0345	0.0000	0.0000
kddcup991%	0.0253	0.0000	0.0000
kidney	0.1778	0.0000	0.0000
kidney-disease	0.3846	0.0000	0.0000
la2s-wc	0.0319	0.0000	0.0000
labor	0.8537	0.6667	0.7071
leaf	0.0167	-0.0117	0.0000
led24	0.1364	-0.0056	0.0000
lenses	0.5714	0.5000	0.6124
letter	0.0390	-0.0016	0.0000
linkage1%	0.4991	0.0000	0.0000
loan	0.9875	0.9750	0.9751
lrs	0.0667	-0.0928	0.0000
lung_discrete	0.4286	0.5102	0.5330
lymphography	0.5520	0.6000	0.6181
lymphoma2	0.6027	0.6842	0.7120
machine-failure	0.9134	0.8260	0.8268
magic04	0.8785	0.7514	0.7569
malware	0.1591	0.0000	0.0000
mammography	0.8125	0.6245	0.6251
marketing	0.1284	0.0000	0.0000
mba	0.3913	0.1450	0.1611
mental-disorders	0.9270	0.8889	0.8972
messidor	0.7045	0.4067	0.4089
meter-A	1.0000	1.0000	1.0000
meter-B	1.0000	1.0000	1.0000
meter-C	1.0000	1.0000	1.0000
meter-D	0.8784	0.8448	0.8561
mfeat-fac	0.1049	0.0056	0.0056
mfeat-fou	0.1100	0.0111	0.0111
mfeat-kar	0.1000	0.0000	0.0000
Continued on next page			

Dataset	F1-macro	Kappa	MCC
mfeat-mor	0.1230	0.0278	0.0278
mfeat-pix	0.0952	0.0000	0.0000
mfeat-zer	0.1000	0.0000	0.0000
mice-prot	1.0000	1.0000	1.0000
milk	1.0000	1.0000	1.0000
mines	0.5295	0.4481	0.4622
mobile	0.0179	0.0031	0.0031
monks-1	1.0000	1.0000	1.0000
monks-3	0.9824	0.9642	0.9648
mushroom	0.3253	0.0000	0.0000
music	0.0918	0.0300	0.0352
MUT_ci300400a_cdk_ECFP2	0.2944	0.0000	0.0000
MUT_ci300400a_cdk_ECFP4	0.2942	0.0000	0.0000
MUT_ci300400a_cdk_ECFP6	0.7580	0.5232	0.5198
MUT_ci300400a_cdk_ESTATE	0.2944	0.0000	0.0000
MUT_ci300400a_cdk_EXTENDED	0.2966	0.0000	0.0000
MUT_ci300400a_cdk_FCFP2	0.3684	0.0000	0.0000
MUT_ci300400a_cdk_FCFP4	0.7904	0.5801	0.5807
MUT_ci300400a_cdk_FCFP6	0.2944	0.0000	0.0000
MUT_ci300400a_cdk_MACCS	0.2944	0.0000	0.0000
MUT_ci300400a_cdk_PUBCHEM	0.8212	0.6510	0.6597
MUT_ci300400a_cdk_STANDARD	0.8420	0.6839	0.6840
MUT_ci300400a_rdkit_descriptors	0.2988	0.0000	0.0000
myocardial	0.3102	0.3867	0.4911
naticusdroid	0.9741	0.9482	0.9482
nci9	0.0476	0.0000	0.0000
ncRNA10%	0.0461	0.0000	0.0000
neo	0.4744	0.0000	0.0000
new-thyroid	1.0000	1.0000	1.0000
new-thyroidT	1.0000	1.0000	1.0000
newspop	0.6665	0.3324	0.3331
NHANES_age_prediction	1.0000	1.0000	1.0000
nomao	0.9570	0.9138	0.9140
nursery	0.9959	0.9989	0.9989
obesity	0.9663	0.9612	0.9613
obs	1.0000	1.0000	1.0000
oh0-wc	0.0867	-0.0686	0.0000
oh10-wc	0.1428	0.0717	0.0784
oh15-wc	0.1287	0.0131	0.0136
oh5-wc	0.0143	0.0000	0.0000
olive	0.9293	0.9129	0.9147
optdigits	0.0163	0.0000	0.0000
orlraws10P	0.0182	0.0000	0.0000
ozone1hr	0.6311	0.1711	0.2238
p53-mutants10%	0.4992	0.0000	0.0000
parkinson	0.9828	0.9655	0.9655
particle	0.4184	0.0000	0.0000
pc1	0.4764	-0.0297	0.0000
pcmac	0.2945	0.0000	0.0000
pediatric-leukemia	0.0159	0.0000	0.0000
pendigits	0.1009	0.0031	0.0031
period-10f	0.5950	0.1818	0.1890
persistence	0.2733	0.0000	0.0000
personalities	0.0074	0.0000	0.0000
pet-adoption	0.9259	0.8489	0.8518
phishing	0.9657	0.9312	0.9314
PhiUSIL10%	0.3637	0.0000	0.0000
phy	0.3346	0.0000	0.0000
Continued on next page			

Dataset	F1-macro	Kappa	MCC
pima	0.7176	0.4154	0.4344
pirvision	0.9977	0.9959	0.9959
placement	0.7845	0.5654	0.5690
plrx	0.4194	0.0000	0.0000
polya	0.7838	0.5672	0.5677
popularity	0.4317	0.2663	0.2837
post-operative	0.2500	0.0000	0.0000
postures	0.2259	0.0016	0.0088
pred-tox_mutagen_ref-desc	0.6919	0.3824	0.3839
prestige	0.8889	0.8302	0.8462
primary-tumor	0.0700	0.0590	0.0739
processed	0.9927	0.9932	0.9934
profb	0.7185	0.4322	0.4366
promoters	0.9083	0.8000	0.8165
puc-rio	0.3211	0.3941	0.5016
pufs-1281%	0.4957	-0.0082	0.0000
pufs-6410%	0.4926	-0.0134	0.0000
pulsar	0.9459	0.8895	0.8917
raisin	0.9115	0.8222	0.8230
rejabatada	0.0340	0.0000	0.0000
relathe	1.0000	1.0000	1.0000
rice	0.9878	0.9756	0.9756
rocket	0.6697	0.3359	0.3394
RT_IOT2022	0.0054	0.0000	0.0000
satimage	0.8947	0.8866	0.8872
scadi	0.1200	0.0000	0.0000
schiller	0.6786	0.3571	0.3571
sclerosis	1.0000	1.0000	1.0000
secom	0.5865	0.1280	0.1539
secondary_mushroom	0.9982	1.0000	1.0000
seeds	0.9553	0.9286	0.9317
segment	0.9817	0.9747	0.9751
segmentation	0.8589	0.7177	0.7179
segmentO	1.0000	1.0000	1.0000
seismic	0.4830	0.0000	0.0000
sens-2-gram	0.4648	0.0000	0.0000
sens-3-gram	0.4648	0.0000	0.0000
sens-4-gram	0.4644	0.0000	0.0000
sensorless	0.0915	0.0006	0.0006
shoppers	0.8036	0.5942	0.6057
sick	0.8705	0.7038	0.7369
sirtuin6	1.0000	1.0000	1.0000
smarket	0.9921	0.9840	0.9841
smk_can_187	0.3214	0.0000	0.0000
smoking	0.8212	0.6416	0.6423
soil_pollution	0.2009	-0.0040	0.0000
solar-flare	0.6340	0.7130	0.7161
sonar	0.6021	0.2000	0.2041
soybean	0.0015	0.0000	0.0000
spam-detection	0.8683	0.7360	0.7366
spambase	0.9545	0.9086	0.9089
spect	0.6021	0.2025	0.2039
spectf	0.8606	0.6818	0.7192
spectrometer	0.0427	0.0629	0.0652
squash-unstored	0.8333	0.6154	0.6667
startup	0.3922	0.0000	0.0000
steel_industry	0.8895	0.8567	0.8567
stellar	0.4839	0.0052	0.0511
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Dataset	F1-macro	Kappa	MCC
stock	0.8092	0.6067	0.6172
stockb	1.0000	1.0000	1.0000
streaming	0.9879	0.9758	0.9758
stress	0.9845	0.9801	0.9805
student-depression	0.3693	0.0000	0.0000
student-habits	0.1796	0.0324	0.0345
student-lifestyle	0.3428	0.3786	0.3815
student-weekend	0.2374	0.1467	0.1515
student-workday	0.2972	0.3514	0.3985
studentap	0.1852	0.0000	0.0000
swarm_aligned	0.4156	0.0000	0.0000
swarm_flocking	0.3345	0.0000	0.0000
swarm_grouped	0.3827	0.0000	0.0000
tae	0.6358	0.4000	0.4111
telco-churn	0.8706	0.7407	0.7412
texture	0.0909	0.0027	0.0027
theorem	1.0000	1.0000	1.0000
thoracic	0.4535	-0.0387	0.0000
Thyroid_Diff	0.9365	0.8648	0.8728
tis	0.1984	0.0000	0.0000
titanic	0.7934	0.5163	0.5813
tourist	0.0444	0.0000	0.0000
trains	0.3333	0.0000	0.0000
transfusion	0.5659	0.1297	0.1314
tuandromd	0.4439	0.0000	0.0000
turkish	0.8351	0.7667	0.7731
tvnews	0.2679	0.0000	0.0000
ur3_cobotops_grip	0.7162	0.2165	0.3484
ur3_cobotops_stop	0.6425	0.2154	0.2583
urban	0.8945	0.8780	0.8803
ustilago10%	0.0106	0.0000	0.0000
vehicle	0.7894	0.7587	0.7594
vote	0.9307	0.8605	0.8615
vowel	0.0940	0.0000	0.0000
wap-wc	0.4774	0.6640	0.6796
warpar10p	0.0800	0.0530	0.0541
warppie10p	0.1000	-0.0050	0.0000
waveform	0.8501	0.7750	0.7751
weather-related	0.0296	0.0000	0.0000
weight-lift	0.0621	0.0000	0.0000
white-clover	0.5000	0.0000	0.0000
wifi-loc	0.9850	0.9800	0.9800
wilt	0.9793	0.9578	0.9587
wine	0.9410	0.9006	0.9064
winequality-red	0.3051	0.4097	0.4171
winequality-white	0.3394	0.4051	0.4152
winnipeg10%	0.0307	0.0000	0.0000
wisc.bc	0.9817	0.9627	0.9633
yale	0.0667	0.0628	0.0677
yeast	0.0803	0.0433	0.0473
yeastCYT-POX	0.9047	0.7897	0.8078
yeastEXC	0.4897	-0.0183	0.0000
yeastME1	0.8546	0.6605	0.7022
yeastME2	0.7773	0.4325	0.5253
zip	0.1021	-0.0100	0.0000

Table 30: Detailed results for PARRF

Dataset	F1-macro	Kappa	MCC
abalone	0.0952	0.0274	0.0281
abalone19	0.4982	0.0000	0.0000
accelerometer	0.7313	0.2692	0.3944
ads	0.4623	0.0000	0.0000
adult	0.4328	0.0000	0.0000
advanced-iot	0.0476	0.0000	0.0000
AID_1431	0.4772	0.0000	0.0000
AID_1431_KlekotaRothFingerprinter	0.4772	0.0000	0.0000
AID_1431_MACCSFingerprinter	0.4772	0.0000	0.0000
AID_1878	0.4444	-0.0357	0.0000
AID_602330	0.4880	-0.0093	0.0000
AID_652128	0.3118	0.0000	0.0000
AID1284red	0.4545	-0.0485	0.0000
AID1608Morered	0.4824	0.0000	0.0000
AID1608red	0.4850	0.0000	0.0000
AID362red	0.4965	0.0000	0.0000
AID373AID439red	0.0002	0.0000	0.0000
AID373red	0.0010	0.0000	0.0000
AID456red	0.4992	0.0000	0.0000
AID604	0.0035	0.0000	0.0000
AID604AID644_AllRed	0.4997	0.0000	0.0000
AID687AID721red	0.4998	0.0000	0.0000
AID687red	0.4992	0.0000	0.0000
AID688red	0.4977	0.0000	0.0000
AID721morered	0.4375	0.0000	0.0000
AID721red	0.4375	0.0000	0.0000
AID746AID1284red	0.0010	0.0000	0.0000
AID746red	0.0060	0.0000	0.0000
aids	0.8394	0.6688	0.6782
air_pollution	0.0826	0.0000	0.0000
alcohol	0.6352	0.7360	0.7479
all-aml	1.0000	1.0000	1.0000
anneal	0.9765	0.9538	0.9551
antivirus	1.0000	1.0000	1.0000
anuran-f-b	1.0000	1.0000	1.0000
anxiety	0.1052	-0.0041	0.0000
apple-quality	0.3333	0.0000	0.0000
aps-failure	0.4955	0.0000	0.0000
arabidopsis1%	0.0079	0.0000	0.0000
arcene	0.7041	0.4000	0.4082
arrhythmia	0.4731	0.7150	0.7217
auction	0.9889	0.9776	0.9778
audiology	0.2378	0.6051	0.6157
audit-risk	1.0000	1.0000	1.0000
autism-adolescent	0.2667	0.0000	0.0000
autism-adult	0.4215	0.0000	0.0000
autism-child	1.0000	1.0000	1.0000
autos	0.7554	0.8667	0.8758
avila	0.9927	0.9938	0.9938
balance	0.6277	0.8205	0.8247
bank	0.7707	0.5407	0.5414
bankruptcy	1.0000	1.0000	1.0000
bio	0.4978	0.0000	0.0000
biodeg	0.8990	0.7981	0.7981
biomed	1.0000	1.0000	1.0000
Continued on next page			

Dataset	F1-macro	Kappa	MCC
bitcoin10%	0.0561	0.0024	0.1519
body-perf	0.1000	0.0000	0.0000
brain-tumor	0.3340	0.0000	0.0000
breast-cancer	0.6518	0.2462	0.2921
breast-cancer-ma	0.3529	0.0000	0.0000
breast-tissue	0.7179	0.6733	0.6869
bridges	0.6636	0.7297	0.7404
bub12at310k-hg16-17	0.4762	0.0000	0.0000
cad	1.0000	1.0000	1.0000
cancer	1.0000	1.0000	1.0000
cancer-uae	0.2201	0.0000	0.0000
car-insurance	0.4072	0.0000	0.0000
cardiotocography-nsp	0.8995	0.8532	0.8554
cardiovascular	0.3335	0.0000	0.0000
cargo2k	1.0000	1.0000	1.0000
cars	0.8298	0.7765	0.7830
ccds10%	0.0370	0.0000	0.0000
cdc_diabetes	0.3048	0.0000	0.0000
census	0.4835	0.0000	0.0000
cervical-B	0.8563	0.7088	0.7122
cervical-H	0.4881	0.0000	0.0000
cervical-S	0.8495	0.6895	0.6980
children-anemia	0.1075	0.0000	0.0000
chrom19	0.4998	0.0000	0.0000
chrom211%	0.4998	0.0000	0.0000
churn	0.7487	0.4779	0.4948
cjs	0.0426	0.0000	0.0000
ckd	0.3939	0.0000	0.0000
clave	0.6765	0.7336	0.7344
cll_sub_111	0.7222	0.4545	0.4545
cmc	0.5457	0.3206	0.3216
cnae-9	0.0222	0.0000	0.0000
codon_usage	0.7785	0.9120	0.9125
coil20	1.0000	1.0000	1.0000
college	0.9345	0.8690	0.8690
collins	1.0000	1.0000	1.0000
colon-tumor	0.7500	0.4000	0.5000
colposcopies-1	0.7635	0.4942	0.5249
colposcopies-2	0.6954	0.3696	0.3894
colposcopies-4	0.6667	0.3165	0.3310
colposcopies-5	0.4423	-0.0610	0.0000
colposcopies-c	0.7767	0.5511	0.5533
column-2c	0.8524	0.7048	0.7048
column-3c	0.7853	0.7359	0.7400
connect-4	0.7161	0.6150	0.6353
coupon	0.7757	0.5492	0.5515
covtype	0.0763	0.0000	0.0000
covtypeCD	0.9852	0.9702	0.9703
covtypeT	0.9479	0.8954	0.8958
crabs	0.9141	0.8667	0.8785
creditcard_trans	0.4996	0.0000	0.0000
crowdsourced	0.8645	0.8903	0.8911
cryotherapy	0.7404	0.3721	0.4781
cultivars	0.5600	0.7425	0.7485
cybersecurity	0.1568	-0.0028	0.0000
cyclopentane	0.6973	0.3898	0.3944
cylinder-bands	0.7710	0.5404	0.5420
datatrieve	0.4800	0.0000	0.0000
Continued on next page			

Dataset	F1-macro	Kappa	MCC
dating	0.0181	0.0000	0.0000
dbworld	0.3636	0.0000	0.0000
default	0.7062	0.3807	0.4072
dementia	1.0000	1.0000	1.0000
deposit	0.7605	0.5178	0.5205
depressed	0.6649	0.0675	0.1869
dermatology	0.9729	0.9662	0.9671
desharnais	0.6364	0.3684	0.3796
df_final	0.8268	0.7108	0.7153
DIA	0.8416	0.6316	0.6794
diabetes-100k	0.4778	0.0000	0.0000
diagnosis	1.0000	1.0000	1.0000
diamonds	1.0000	1.0000	1.0000
diamonds_all	0.7916	0.7128	0.7145
dishonest	1.0000	1.0000	1.0000
dlbcl-nih	0.4912	-0.0154	0.0000
dlbcl-stanford	0.8333	0.6154	0.6667
dna0.1%	0.0028	0.0000	0.0000
dota2	0.3210	0.0000	0.0000
drebin	0.2700	0.0000	0.0000
dropout	0.7029	0.6215	0.6403
ecoli	0.5460	0.7954	0.8003
ecoliCP-IM	1.0000	1.0000	1.0000
ecoliM	0.9586	0.9138	0.9172
ecoliMU	0.7649	0.5217	0.5285
ecoliOM	0.8514	0.6526	0.6960
ecommerce	0.2766	0.0284	0.0291
euthyroid	0.9064	0.8103	0.8126
fakenews	0.3355	0.0000	0.0000
fbis-wc	0.7371	0.7944	0.7996
finance	0.7426	0.4751	0.4850
financial-risk	0.0692	0.0000	0.0000
flags	0.0476	0.0000	0.0000
forest	0.8906	0.8669	0.8710
gas	0.9979	0.9974	0.9974
gastrointestinal	0.8741	0.7949	0.8002
gender	0.4703	0.1398	0.1593
german	0.6432	0.2519	0.2819
gestures	0.0997	0.0000	0.0000
gina	0.9597	0.9193	0.9194
gisette	0.3333	0.0000	0.0000
glass	0.7796	0.7423	0.7493
glass-g2	0.9352	0.8621	0.8704
glassBWFP	0.8108	0.5532	0.6183
glassBWNFP	0.8955	0.7692	0.7906
glassContainers	0.8483	0.6452	0.6901
glassNW	0.9340	0.8591	0.8677
glassTableware	1.0000	1.0000	1.0000
GlaucomaM	0.7978	0.5824	0.5955
gli_85	0.2000	0.0000	0.0000
glioma	0.6250	0.7059	0.7500
glioma-grade	0.8813	0.7590	0.7626
green	0.5238	0.0476	0.0476
gsalc	1.0000	1.0000	1.0000
haberman	0.7266	0.4444	0.4523
hapt	0.0012	0.0000	0.0000
har	0.9960	0.9955	0.9955
harth10%	0.0096	0.0000	0.0000
Continued on next page			

Dataset	F1-macro	Kappa	MCC
health-activity	0.2175	0.0000	0.0000
heart	0.8090	0.5994	0.6175
heart-c	0.8780	0.7273	0.7559
heart-failure	0.4069	0.0000	0.0000
heart-quantum	0.9249	0.8387	0.8498
hepatitis	0.7917	0.5833	0.5833
higher	0.1591	0.0610	0.0625
hinselmann	0.4444	0.0000	0.0000
hitters	0.9373	0.8745	0.8745
hiv1-proteasa	0.7825	0.5495	0.5631
hiva	0.0342	0.0000	0.0000
horse	0.6749	0.4438	0.4754
hotel-reservartions	0.4020	0.0000	0.0000
hr	0.4633	0.0000	0.0000
ht-sensor	0.1650	0.0000	0.0000
htru2	0.9363	0.8720	0.8726
hypothyroid	0.7387	0.9684	0.9684
immuno-therapy	0.8333	0.6087	0.6614
ionosphere	0.9038	0.8059	0.8076
iris	1.0000	1.0000	1.0000
irish	1.0000	1.0000	1.0000
isolet	0.9167	0.9092	0.9096
jm1	0.6580	0.2477	0.2978
jvowels	0.9799	0.9795	0.9795
kc1-class-level-numericdefect	0.0341	0.1139	0.1683
kc1-class-level-top5percentDF	0.4643	-0.0714	0.0000
kc2	0.7038	0.3777	0.4025
kdc-4007	0.0345	0.0000	0.0000
kddcup991%	0.8272	0.9976	0.9976
kidney	0.1778	0.0000	0.0000
kidney-disease	0.3846	0.0000	0.0000
la2s-wc	0.0319	0.0000	0.0000
labor	1.0000	1.0000	1.0000
leaf	0.2541	0.4506	0.4623
led24	0.6364	0.6078	0.6147
lenses	1.0000	1.0000	1.0000
letter	0.9661	0.9651	0.9652
linkage1%	0.9879	0.9755	0.9758
loan	0.3838	0.0000	0.0000
lrs	0.4363	0.7650	0.7743
lung_discrete	0.7143	1.0000	1.0000
lymphography	0.3701	0.4510	0.4560
lymphoma2	0.5263	0.8500	0.8645
machine-failure	0.9124	0.8247	0.8247
magic04	0.8701	0.7381	0.7402
malware	1.0000	1.0000	1.0000
mammography	0.8556	0.7087	0.7112
marketing	0.7768	0.5110	0.5468
mba	0.0845	0.0000	0.0000
mental-disorders	0.9270	0.8889	0.8972
messidor	0.6673	0.3338	0.3347
meter-A	0.8000	0.5294	0.6000
meter-B	1.0000	1.0000	1.0000
meter-C	1.0000	1.0000	1.0000
meter-D	0.8784	0.8448	0.8561
mfeat-fac	0.9757	0.9722	0.9724
mfeat-fou	0.8268	0.8056	0.8062
mfeat-kar	0.9712	0.9667	0.9669
Continued on next page			

Dataset	F1-macro	Kappa	MCC
mfeat-mor	0.6821	0.6500	0.6510
mfeat-pix	0.9902	0.9889	0.9889
mfeat-zer	0.8046	0.7833	0.7835
mice-prot	1.0000	1.0000	1.0000
milk	1.0000	1.0000	1.0000
mines	0.5281	0.4463	0.4472
mobile	0.9873	0.9858	0.9858
monks-1	1.0000	1.0000	1.0000
monks-3	0.9653	0.9283	0.9307
mushroom	1.0000	1.0000	1.0000
music	0.0136	0.0000	0.0000
MUT_ci300400a_cdk_ECFP2	0.2944	0.0000	0.0000
MUT_ci300400a_cdk_ECFP4	0.2942	0.0000	0.0000
MUT_ci300400a_cdk_ECFP6	0.2948	0.0000	0.0000
MUT_ci300400a_cdk_ESTATE	0.7719	0.5404	0.5438
MUT_ci300400a_cdk_EXTENDED	0.8619	0.7239	0.7239
MUT_ci300400a_cdk_FCFP2	0.2942	0.0000	0.0000
MUT_ci300400a_cdk_FCFP4	0.2944	0.0000	0.0000
MUT_ci300400a_cdk_FCFP6	0.2944	0.0000	0.0000
MUT_ci300400a_cdk_MACCS	0.8574	0.7147	0.7148
MUT_ci300400a_cdk_PUBCHEM	0.2942	0.0000	0.0000
MUT_ci300400a_cdk_STANDARD	0.2942	0.0000	0.0000
MUT_ci300400a_rdkit_descriptors	0.8697	0.7392	0.7393
myocardial	0.3102	0.3867	0.4911
naticusdroid	0.9727	0.9454	0.9455
nci9	0.4148	0.6129	0.6556
ncRNA10%	0.0461	0.0000	0.0000
neo	0.4744	0.0000	0.0000
new-thyroid	1.0000	1.0000	1.0000
new-thyroidT	1.0000	1.0000	1.0000
newspop	0.6686	0.3356	0.3373
NHANES_age_prediction	1.0000	1.0000	1.0000
nomao	0.4167	0.0000	0.0000
nursery	0.7995	0.9989	0.9989
obesity	0.9765	0.9723	0.9727
obs	1.0000	1.0000	1.0000
oh0-wc	0.9347	0.9205	0.9220
oh10-wc	0.8131	0.7822	0.7869
oh15-wc	0.0122	0.0000	0.0000
oh5-wc	0.0143	0.0000	0.0000
olive	0.9385	0.9343	0.9362
optdigits	0.9574	0.9505	0.9506
orlraws10P	1.0000	1.0000	1.0000
ozone1hr	0.4899	-0.0072	0.0000
p53-mutants10%	0.4992	0.0000	0.0000
parkinson	0.9915	0.9828	0.9830
particle	0.2191	0.0000	0.0000
pc1	0.6644	0.2997	0.3199
pcmac	0.2945	0.0000	0.0000
pediatric-leukemia	0.6545	0.6738	0.6760
pendigits	0.9918	0.9909	0.9909
period-10f	0.5000	0.0000	0.0000
persistence	0.2733	0.0000	0.0000
personalities	0.0074	0.0000	0.0000
pet-adoption	0.9319	0.8600	0.8638
phishing	0.9614	0.9225	0.9228
PhiUSIL10%	0.3637	0.0000	0.0000
phy	0.7144	0.4287	0.4288
Continued on next page			

Dataset	F1-macro	Kappa	MCC
pima	0.6871	0.3569	0.3732
pirvision	0.9977	0.9959	0.9959
placement	0.3671	0.0000	0.0000
plrx	0.4194	0.0000	0.0000
polya	0.7539	0.5015	0.5076
popularity	0.5512	0.2645	0.2858
post-operative	0.2667	0.0000	0.0000
postures	0.9913	0.9893	0.9893
pred-tox_mutagen_ref-desc	0.7062	0.4118	0.4125
prestige	0.8889	0.8302	0.8462
primary-tumor	0.1077	0.1992	0.2125
processed	0.4040	0.0000	0.0000
profb	0.6109	0.2193	0.2215
promoters	0.8333	0.6154	0.6667
puc-rio	0.9923	0.9941	0.9941
pufs-1281%	0.3333	0.0000	0.0000
pufs-6410%	0.3334	0.0000	0.0000
pulsar	0.4757	0.0000	0.0000
raisin	0.8893	0.7778	0.7785
rejafada	1.0000	1.0000	1.0000
relathe	1.0000	1.0000	1.0000
rice	0.3545	0.0000	0.0000
rocket	0.7035	0.4071	0.4071
RT_IOT2022	0.0054	0.0000	0.0000
satimage	0.8950	0.8865	0.8873
scadi	0.1200	0.0000	0.0000
schiller	0.6786	0.3571	0.3571
sclerosis	1.0000	1.0000	1.0000
secom	0.4834	0.0000	0.0000
secondary_mushroom	0.3568	0.0000	0.0000
seeds	0.9553	0.9286	0.9317
segment	0.9705	0.9595	0.9601
segmentation	0.8489	0.6979	0.6979
segmentO	1.0000	1.0000	1.0000
seismic	0.4830	0.0000	0.0000
sens-2-gram	0.6559	0.1245	0.2283
sens-3-gram	0.4648	0.0000	0.0000
sens-4-gram	0.4648	0.0000	0.0000
sensorless	0.9997	0.9996	0.9996
shoppers	0.7995	0.5948	0.5985
sick	0.9093	0.8149	0.8184
sirtuin6	1.0000	1.0000	1.0000
smarket	0.9921	0.9840	0.9841
smk_can_187	0.3214	0.0000	0.0000
smoking	0.3876	0.0000	0.0000
soil_pollution	0.2096	0.0068	0.0068
solar-flare	0.6159	0.6932	0.6982
sonar	0.7185	0.4000	0.4364
soybean	0.9725	0.9677	0.9682
spam-detection	0.4759	0.0000	0.0000
spambase	0.9453	0.8903	0.8906
spect	0.6403	0.2703	0.2786
spectf	0.8552	0.7021	0.7100
spectrometer	0.6425	0.6736	0.6771
squash-unstored	0.6667	1.0000	1.0000
startup	1.0000	1.0000	1.0000
steel_industry	0.8959	0.8667	0.8667
stellar	0.2486	0.0000	0.0000
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Dataset	F1-macro	Kappa	MCC
stock	0.8772	0.7503	0.7541
stockb	0.9956	0.9934	0.9934
streaming	0.3094	0.0000	0.0000
stress	0.9845	0.9801	0.9805
student-depression	0.3693	0.0000	0.0000
student-habits	0.1741	0.0118	0.0130
student-lifestyle	0.1251	0.0000	0.0000
student-weekend	0.2731	0.0818	0.1467
student-workday	0.2892	0.2418	0.2979
studentap	0.4579	0.1727	0.1743
swarm_aligned	0.4075	0.0000	0.0000
swarm_flocking	0.3333	0.0000	0.0000
swarm_grouped	0.3846	0.0000	0.0000
tae	0.6082	0.4000	0.4027
telco-churn	0.2099	0.0000	0.0000
texture	0.9847	0.9820	0.9820
theorem	1.0000	1.0000	1.0000
thoracic	0.4598	0.0000	0.0000
Thyroid_Diff	0.9681	0.9343	0.9363
tis	0.1984	0.0000	0.0000
titanic	0.7934	0.5163	0.5813
tourist	0.0444	0.0000	0.0000
trains	0.3333	0.0000	0.0000
transfusion	0.4620	-0.0726	0.0000
tuandromd	0.9825	0.9651	0.9651
turkish	0.8238	0.7667	0.7699
tvnews	0.2679	0.0000	0.0000
ur3_cobotops_grip	0.7781	0.5041	0.5448
ur3_cobotops_stop	0.7996	0.5790	0.5955
urban	0.8454	0.8241	0.8266
ustilago10%	0.0106	0.0000	0.0000
vehicle	0.7304	0.6948	0.6966
vote	0.9307	0.8605	0.8615
vowel	0.6700	0.5889	0.6000
wap-wc	0.5844	0.7678	0.7732
warpar10p	0.8330	0.8267	0.8379
warppie10p	1.0000	1.0000	1.0000
waveform	0.8530	0.7781	0.7798
weather-related	0.0296	0.0000	0.0000
weight-lift	0.0621	0.0000	0.0000
white-clover	0.2500	0.0000	0.0000
wifi-loc	0.9950	0.9933	0.9934
wilt	0.9562	0.9123	0.9123
wine	1.0000	1.0000	1.0000
winequality-red	0.3394	0.4966	0.5021
winequality-white	0.4270	0.5404	0.5476
winnipeg10%	0.0307	0.0000	0.0000
wisc.bc	1.0000	1.0000	1.0000
yale	0.8320	0.8655	0.8729
yeast	0.4051	0.4842	0.4908
yeastCYT-POX	0.9047	0.7897	0.8078
yeastEXC	0.7431	0.4861	0.4861
yeastME1	0.9318	0.8538	0.8630
yeastME2	0.7170	0.3825	0.4197
zip	0.9460	0.9434	0.9434

Table 31: Detailed results for PPforest

Dataset	F1-macro	Kappa	MCC
abalone	0.0007	0.0000	0.0000
abalone19	0.4536	-0.0139	0.0000
accelerometer	0.6371	0.0753	0.1810
ads	0.4623	0.0000	0.0000
adult	0.4328	0.0000	0.0000
advanced-iot	1.0000	1.0000	1.0000
AID_1431	0.4772	0.0000	0.0000
AID_1431_KlekotaRothFingerprinter	0.4772	0.0000	0.0000
AID_1431_MACCSFingerprinter	0.4772	0.0000	0.0000
AID_1878	0.4503	0.0000	0.0000
AID_602330	0.5019	0.0029	0.0033
AID_652128	0.3112	-0.0244	0.0000
AID1284red	0.1220	0.0000	0.0000
AID1608Morered	0.0636	0.0000	0.0000
AID1608red	0.4850	0.0000	0.0000
AID362red	0.0138	0.0000	0.0000
AID373AID439red	0.5014	0.0000	0.0000
AID373red	0.0010	0.0000	0.0000
AID456red	0.4992	0.0000	0.0000
AID604	0.6185	0.0199	0.0864
AID604AID644_AllRed	0.4749	-0.0020	0.0000
AID687AID721red	0.6000	0.0221	0.0742
AID687red	0.5168	0.0030	0.0109
AID688red	0.4977	0.0000	0.0000
AID721morered	0.1818	0.0000	0.0000
AID721red	0.1818	0.0000	0.0000
AID746AID1284red	0.5634	0.0105	0.0398
AID746red	0.4985	0.0000	0.0000
aids	0.7896	0.5785	0.5792
air_pollution	0.1420	-0.0073	0.0000
alcohol	0.4009	0.5410	0.5422
all-aml	1.0000	1.0000	1.0000
anneal	0.0044	0.0000	0.0000
antivirus	0.1591	0.0000	0.0000
anuran-f-b	0.6861	0.1260	0.2593
anxiety	0.0838	-0.0168	0.0000
apple-quality	0.6756	0.3500	0.3511
aps-failure	0.8436	0.6868	0.6871
arabidopsis1%	0.4980	0.0000	0.0000
arcene	0.2857	0.0000	0.0000
arrhythmia	0.0085	0.0000	0.0000
auction	0.7003	0.3159	0.3893
audiology	0.0390	0.0000	0.0000
audit-risk	0.9607	0.9184	0.9214
autism-adolescent	0.2667	0.0000	0.0000
autism-adult	0.4215	0.0000	0.0000
autism-child	0.3409	0.0000	0.0000
autos	0.0923	0.0000	0.0000
avila	0.3859	0.2825	0.2952
balance	0.6663	0.5701	0.6024
bank	0.4702	0.0000	0.0000
bankruptcy	0.2857	0.0000	0.0000
bio	0.4990	0.0000	0.0000
biodeg	0.2759	0.0000	0.0000
biomed	0.9507	0.8966	0.9014
Continued on next page			

Dataset	F1-macro	Kappa	MCC
bitcoin10%	0.1631	0.0066	0.0415
body-perf	0.5762	0.4408	0.4564
brain-tumor	0.5120	0.0240	0.0240
breast-cancer	0.2222	0.0000	0.0000
breast-cancer-ma	0.3529	0.0000	0.0000
breast-tissue	0.8470	0.7800	0.7879
bridges	0.0303	0.0000	0.0000
bub12at310k-hg16-17	0.4762	0.0000	0.0000
cad	0.9302	0.8507	0.8604
cancer	1.0000	1.0000	1.0000
cancer-uae	0.3308	-0.0087	0.0000
car-insurance	0.7872	0.5699	0.5743
cardiotocography-nsp	0.7885	0.6680	0.6893
cardiovascular	0.6533	0.3062	0.3066
cargo2k	0.2250	0.0061	0.0075
cars	0.6111	0.4850	0.4923
ccds10%	0.4902	0.0000	0.0000
cdc_diabetes	0.4628	0.2948	0.3142
census	0.4897	0.0000	0.0000
cervical-B	0.4819	0.0000	0.0000
cervical-H	0.4881	0.0000	0.0000
cervical-S	0.4756	0.0000	0.0000
children-anemia	0.1075	0.0000	0.0000
chrom19	0.6703	0.0508	0.1584
chrom211%	0.5053	0.0000	0.0000
churn	0.6584	0.2874	0.3140
cjs	0.0426	0.0000	0.0000
ckd	0.3939	0.0000	0.0000
clave	0.0946	-0.2367	0.0000
cll_sub_111	0.0952	0.0000	0.0000
cmc	0.4651	0.1959	0.2011
cnae-9	0.0222	0.0000	0.0000
codon_usage	0.7098	0.7788	0.7798
coil20	0.8338	0.8318	0.8350
college	0.9055	0.8092	0.8109
collins	0.0075	0.0000	0.0000
colon-tumor	0.2500	0.0000	0.0000
colposcopies-1	0.6650	0.3290	0.3300
colposcopies-2	0.6338	0.2677	0.2677
colposcopies-4	0.4972	-0.0053	0.0000
colposcopies-5	0.7217	0.4402	0.4429
colposcopies-c	0.6545	0.3072	0.3087
column-2c	0.8362	0.6578	0.6722
column-3c	0.8023	0.6890	0.7033
connect-4	0.3296	0.0000	0.0000
coupon	0.3625	0.0000	0.0000
covtype	0.0763	0.0000	0.0000
covtypeCD	0.1202	0.0000	0.0000
covtypeT	0.4819	0.0000	0.0000
crabs	0.5911	0.4000	0.4382
creditcard_trans	0.9045	0.8082	0.8089
crowdsourced	0.6977	0.6746	0.6845
cryotherapy	0.9000	0.7805	0.8000
cultivars	0.2231	0.3226	0.3361
cybersecurity	0.1753	-0.0027	0.0000
cyclopentane	0.3077	0.0000	0.0000
cylinder-bands	0.3647	0.0000	0.0000
datatrieve	0.6977	0.2353	0.3651
Continued on next page			

Dataset	F1-macro	Kappa	MCC
dating	0.0971	-0.0021	0.0000
dbworld	0.3636	0.0000	0.0000
default	0.6605	0.3077	0.3197
dementia	0.3421	0.0000	0.0000
deposit	0.7216	0.4384	0.4423
depressed	0.5994	0.1613	0.1938
dermatology	0.0571	-0.0186	0.0000
desharnais	0.3158	0.0244	0.0265
df_final	0.1818	0.0000	0.0000
DIA	0.4286	0.0000	0.0000
diabetes-100k	0.7916	0.5617	0.5801
diagnosis	1.0000	1.0000	1.0000
diamonds	0.9747	0.9769	0.9773
diamonds_all	0.4168	0.3381	0.3479
dishonest	0.4074	0.0000	0.0000
dlbcl-nih	0.3684	0.0000	0.0000
dlbcl-stanford	0.8333	0.6154	0.6667
dna0.1%	0.0028	0.0000	0.0000
dota2	0.3178	0.0000	0.0000
drebin	0.9615	0.9229	0.9229
dropout	0.6943	0.6089	0.6089
ecoli	0.5434	0.7551	0.7579
ecoliCP-IM	1.0000	1.0000	1.0000
ecoliM	0.7791	0.5237	0.5569
ecoliMU	0.6474	0.2281	0.2797
ecoliOM	0.7339	0.4677	0.4677
ecommerce	0.2705	0.0277	0.0280
euthyroid	0.0893	0.0000	0.0000
fakenews	0.5352	0.0703	0.0703
fbis-wc	0.1451	0.2050	0.2262
finance	0.8844	0.7587	0.7687
financial-risk	0.5977	0.5066	0.5322
flags	0.0476	0.0000	0.0000
forest	0.8722	0.8669	0.8692
gas	0.9793	0.9738	0.9739
gastrointestinal	0.1053	0.0000	0.0000
gender	0.4582	0.1541	0.1640
german	0.2593	0.0000	0.0000
gestures	0.3248	0.0986	0.1109
gina	0.8908	0.7807	0.7815
gisette	0.3361	0.0000	0.0000
glass	0.5044	0.4392	0.4501
glass-g2	0.8091	0.6129	0.6181
glassBWFP	0.8077	0.5494	0.6154
glassBWNFP	0.6734	0.2941	0.3467
glassContainers	1.0000	1.0000	1.0000
glassNW	0.9340	0.8591	0.8677
glassTableware	0.7019	0.2254	0.3563
GlaucomaM	0.7889	0.5778	0.5778
gli_85	0.2000	0.0000	0.0000
glioma	0.3947	0.4118	0.4677
glioma-grade	0.2941	0.0000	0.0000
green	0.5238	0.0476	0.0476
gsalc	0.0606	0.0000	0.0000
haberman	0.6591	0.3182	0.3182
hapt	0.0012	0.0000	0.0000
har	0.6738	0.5894	0.5918
harth10%	0.2641	0.4154	0.4268
Continued on next page			

Dataset	F1-macro	Kappa	MCC
health-activity	0.3761	0.0660	0.0949
heart	0.7699	0.5398	0.5398
heart-c	0.3182	0.0000	0.0000
heart-failure	0.7751	0.5440	0.5501
heart-quantum	0.9249	0.8387	0.8498
hepatitis	0.8077	0.5455	0.6124
higher	0.1529	0.0667	0.0743
hinselmann	0.2857	-0.3636	0.0000
hitters	0.9373	0.8745	0.8745
hiv1-proteasa	0.8410	0.6714	0.6813
hiva	0.4904	-0.0045	0.0000
horse	0.2848	0.0769	0.1071
hotel-reservartions	0.7731	0.5362	0.5461
hr	0.5071	0.0127	0.0139
ht-sensor	0.1650	0.0000	0.0000
htru2	0.9165	0.8255	0.8326
hypothyroid	0.2382	0.0000	0.0000
immuno-therapy	0.8000	0.5263	0.5976
ionosphere	0.8309	0.6602	0.6617
iris	1.0000	1.0000	1.0000
irish	0.3590	0.0000	0.0000
isolet	0.9369	0.9332	0.9334
jm1	0.6427	0.2815	0.2849
javowels	0.8816	0.8726	0.8739
kc1-class-level-numericdefect	0.0286	0.0000	0.0000
kc1-class-level-top5percentDF	0.4643	-0.0714	0.0000
kc2	0.7219	0.4233	0.4421
kdc-4007	0.0345	0.0000	0.0000
kddcup991%	0.0253	0.0000	0.0000
kidney	0.1998	0.0044	0.0066
kidney-disease	0.3846	0.0000	0.0000
la2s-wc	0.0670	0.0000	0.0000
labor	0.8537	0.6667	0.7071
leaf	0.2675	0.4774	0.4840
led24	0.6149	0.6045	0.6080
lenses	1.0000	1.0000	1.0000
letter	0.6219	0.5994	0.6019
linkage1%	0.8807	0.7396	0.7587
loan	0.9410	0.8782	0.8820
lrs	0.4168	0.7402	0.7467
lung_discrete	0.0000	-0.1034	0.0000
lymphography	0.0444	0.0000	0.0000
lymphoma2	0.1026	0.0000	0.0000
machine-failure	0.9152	0.8273	0.8304
magic04	0.7133	0.4182	0.4261
malware	0.1591	0.0000	0.0000
mammography	0.3469	0.0000	0.0000
marketing	0.6513	0.2264	0.2936
mba	0.0845	0.0000	0.0000
mental-disorders	0.1000	0.0000	0.0000
messidor	0.7302	0.4275	0.4603
meter-A	1.0000	1.0000	1.0000
meter-B	0.1212	0.0000	0.0000
meter-C	0.1250	0.0000	0.0000
meter-D	0.1087	0.0000	0.0000
mfeat-fac	0.9368	0.9222	0.9238
mfeat-fou	0.8169	0.7944	0.7957
mfeat-kar	0.9754	0.9722	0.9723
Continued on next page			

Dataset	F1-macro	Kappa	MCC
mfeat-mor	0.6870	0.6500	0.6510
mfeat-pix	0.0667	0.0000	0.0000
mfeat-zer	0.7929	0.7667	0.7677
mice-prot	0.0305	0.0000	0.0000
milk	0.6814	0.4856	0.5177
mines	0.3801	0.3001	0.3129
mobile	0.6940	0.6297	0.6333
monks-1	0.6382	0.2696	0.2763
monks-3	0.7323	0.4643	0.4646
mushroom	0.3253	0.0000	0.0000
music	0.4635	0.3135	0.3264
MUT_ci300400a_cdk_ECFP2	0.5322	0.0575	0.0643
MUT_ci300400a_cdk_ECFP4	0.7805	0.5572	0.5671
MUT_ci300400a_cdk_ECFP6	0.3679	0.0000	0.0000
MUT_ci300400a_cdk_ESTATE	0.2944	0.0000	0.0000
MUT_ci300400a_cdk_EXTENDED	0.2933	0.0000	0.0000
MUT_ci300400a_cdk_FCFP2	0.2942	0.0000	0.0000
MUT_ci300400a_cdk_FCFP4	0.6431	0.2627	0.2862
MUT_ci300400a_cdk_FCFP6	0.2944	0.0000	0.0000
MUT_ci300400a_cdk_MACCS	0.2944	0.0000	0.0000
MUT_ci300400a_cdk_PUBCHEM	0.2925	0.0000	0.0000
MUT_ci300400a_cdk_STANDARD	0.7725	0.5440	0.5450
MUT_ci300400a_rdkit_descriptors	0.2988	0.0000	0.0000
myocardial	0.1142	0.0000	0.0000
naticusdroid	0.3328	0.0000	0.0000
nci9	0.0476	0.0000	0.0000
ncRNA10%	0.0461	0.0000	0.0000
neo	0.4744	0.0000	0.0000
new-thyroid	1.0000	1.0000	1.0000
new-thyroidT	1.0000	1.0000	1.0000
newspop	0.6422	0.2843	0.2843
NHANES_age_prediction	0.8632	0.6882	0.7243
nomao	0.4167	0.0000	0.0000
nursery	0.1250	0.0000	0.0000
obesity	0.0345	0.0000	0.0000
obs	0.1582	0.0000	0.0000
oh0-wc	0.0112	0.0000	0.0000
oh10-wc	0.0951	0.0206	0.0216
oh15-wc	0.0122	0.0000	0.0000
oh5-wc	0.1703	0.0461	0.0481
olive	0.9064	0.9124	0.9150
optdigits	0.0801	0.0160	0.0226
orlraws10P	0.0182	0.0000	0.0000
ozone1hr	0.7166	0.3002	0.3971
p53-mutants10%	0.4992	0.0000	0.0000
parkinson	0.9579	0.9146	0.9158
particle	0.8656	0.7290	0.7312
pc1	0.5863	0.1721	0.1725
pcmac	0.4971	-0.0053	0.0000
pediatric-leukemia	0.0544	0.0000	0.0000
pendigits	0.9020	0.8877	0.8885
period-10f	0.5000	0.0000	0.0000
persistence	0.2733	0.0000	0.0000
personalities	0.8766	0.8633	0.8642
pet-adoption	0.4012	0.0000	0.0000
phishing	0.2815	0.0000	0.0000
PhiUSIL10%	0.3637	0.0000	0.0000
phy	0.6644	0.3285	0.3288
Continued on next page			

Dataset	F1-macro	Kappa	MCC
pima	0.7029	0.3973	0.4056
pirvision	0.9256	0.8376	0.8489
placement	0.7749	0.5464	0.5498
plrx	0.4375	-0.1111	0.0000
polya	0.7637	0.5240	0.5273
popularity	0.4893	0.2311	0.2529
post-operative	0.2500	0.0000	0.0000
postures	0.7640	0.7026	0.7044
pred-tox_mutagen_ref-desc	0.6353	0.2647	0.2705
prestige	0.8889	0.8302	0.8462
primary-tumor	0.0237	0.0000	0.0000
processed	0.4040	0.0000	0.0000
profb	0.4018	0.0000	0.0000
promoters	0.2857	0.0000	0.0000
puc-rio	0.7476	0.7527	0.7543
pufs-1281%	0.5063	0.0127	0.0127
pufs-6410%	0.3298	0.0000	0.0000
pulsar	0.9197	0.8295	0.8389
raisin	0.9127	0.8222	0.8255
rejabatada	0.0340	0.0000	0.0000
relathe	0.9929	0.9858	0.9859
rice	0.9840	0.9677	0.9680
rocket	0.3719	0.0000	0.0000
RT_IOT2022	0.0054	0.0000	0.0000
satimage	0.8293	0.8216	0.8225
scadi	0.1200	0.0000	0.0000
schiller	0.5303	0.0526	0.0598
sclerosis	1.0000	1.0000	1.0000
secom	0.5021	0.0017	0.0034
secondary_mushroom	0.3081	0.0000	0.0000
seeds	0.9553	0.9286	0.9317
segment	0.9533	0.9392	0.9398
segmentation	0.8110	0.6162	0.6219
segmentO	0.9407	0.8743	0.8813
seismic	0.0618	0.0000	0.0000
sens-2-gram	0.4648	0.0000	0.0000
sens-3-gram	0.4648	0.0000	0.0000
sens-4-gram	0.1163	0.0000	0.0000
sensorless	0.8441	0.8264	0.8276
shoppers	0.1335	0.0000	0.0000
sick	0.6545	0.2021	0.2815
sirtuin6	1.0000	1.0000	1.0000
smarket	0.9765	0.9519	0.9530
smk_can_187	0.3214	0.0000	0.0000
smoking	0.7392	0.4334	0.4784
soil_pollution	0.2093	0.0024	0.0024
solar-flare	0.4645	0.4724	0.4928
sonar	0.5503	0.1000	0.1005
soybean	0.0015	0.0000	0.0000
spam-detection	0.7189	0.3371	0.4208
spambase	0.3767	0.0000	0.0000
spect	0.1818	0.0000	0.0000
spectf	0.7181	0.4068	0.4353
spectrometer	0.3767	0.4870	0.4999
squash-unstored	0.2857	0.0000	0.0000
startup	0.3922	0.0000	0.0000
steel_industry	0.2269	0.0000	0.0000
stellar	0.7456	0.6101	0.6208
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Dataset	F1-macro	Kappa	MCC
stock	0.8384	0.6725	0.6766
stockb	0.1672	0.0000	0.0000
streaming	0.7927	0.5809	0.5854
stress	0.0640	0.0000	0.0000
student-depression	0.4664	-0.0166	0.0000
student-habits	0.0190	0.0000	0.0000
student-lifestyle	0.4242	0.2041	0.2211
student-weekend	0.1111	0.0000	0.0000
student-workday	0.1651	0.0000	0.0000
studentap	0.1852	0.0000	0.0000
swarm_aligned	0.4119	0.0000	0.0000
swarm_flocking	0.3375	0.0000	0.0000
swarm_grouped	0.3815	0.0000	0.0000
tae	0.4820	0.2000	0.2056
telco-churn	0.2099	0.0000	0.0000
texture	0.0154	0.0000	0.0000
theorem	0.3681	0.0000	0.0000
thoracic	0.1296	0.0000	0.0000
Thyroid_Diff	0.4154	0.0000	0.0000
tis	0.6539	0.3068	0.3078
titanic	0.2440	0.0000	0.0000
tourist	0.0444	0.0000	0.0000
trains	0.3333	0.0000	0.0000
transfusion	0.4318	0.0000	0.0000
tuandromd	0.4439	0.0000	0.0000
turkish	0.9073	0.8667	0.8718
tvnews	0.8454	0.6907	0.6908
ur3_cobotops_grip	0.5460	0.0493	0.0727
ur3_cobotops_stop	0.6089	0.0996	0.1723
urban	0.8494	0.7903	0.7943
ustilago10%	0.0106	0.0000	0.0000
vehicle	0.6270	0.5798	0.5853
vote	0.9307	0.8605	0.8615
vowel	0.5356	0.5444	0.5602
wap-wc	0.0013	0.0000	0.0000
warpar10p	0.4340	0.3933	0.4361
warppie10p	0.8563	0.7884	0.8006
waveform	0.7945	0.6676	0.6860
weather-related	0.0296	0.0000	0.0000
weight-lift	0.0621	0.0000	0.0000
white-clover	0.2500	0.0000	0.0000
wifi-loc	0.9850	0.9800	0.9800
wilt	0.6139	0.1233	0.1928
wine	1.0000	1.0000	1.0000
winequality-red	0.3373	0.1922	0.2000
winequality-white	0.2421	0.1208	0.1280
winnipeg10%	0.0307	0.0000	0.0000
wisc.bc	0.9817	0.9627	0.9633
yale	0.1676	0.1967	0.2102
yeast	0.4862	0.4760	0.4805
yeastCYT-POX	0.9047	0.7897	0.8078
yeastEXC	0.7388	0.3173	0.4343
yeastME1	0.7638	0.3952	0.4963
yeastME2	0.7099	0.3561	0.4040
zip	0.9223	0.9193	0.9194

Table 32: Detailed results for PRF

Dataset	F1-macro	Kappa	MCC
abalone	0.1490	0.0783	0.0793
abalone19	0.4982	0.0000	0.0000
accelerometer	0.7304	0.3333	0.4206
ads	0.9679	0.9350	0.9357
adult	0.7823	0.5610	0.5644
advanced-iot	1.0000	1.0000	1.0000
AID_1431	0.4728	-0.0276	0.0000
AID_1431_KlekotaRothFingerprinter	0.4772	0.0000	0.0000
AID_1431_MACCSFingerprinter	0.4772	0.0000	0.0000
AID_1878	0.4444	-0.0357	0.0000
AID_602330	0.4880	-0.0093	0.0000
AID_652128	0.3118	0.0000	0.0000
AID1284red	0.4627	0.0000	0.0000
AID1608Morered	0.4798	-0.0173	0.0000
AID1608red	0.4850	0.0000	0.0000
AID362red	0.4965	0.0000	0.0000
AID373AID439red	0.4999	-0.0002	0.0000
AID373red	0.7367	0.2855	0.4081
AID456red	0.4992	0.0000	0.0000
AID604	0.9850	0.9696	0.9700
AID604AID644_AllRed	0.4997	0.0000	0.0000
AID687AID721red	0.4998	0.0000	0.0000
AID687red	0.4992	0.0000	0.0000
AID688red	0.4977	0.0000	0.0000
AID721morered	0.4375	0.0000	0.0000
AID721red	0.4375	0.0000	0.0000
AID746AID1284red	0.4997	0.0000	0.0000
AID746red	0.7136	0.1990	0.3324
aids	0.8533	0.6921	0.7058
air_pollution	0.0825	-0.0004	0.0000
alcohol	0.5375	0.6270	0.6523
all-aml	1.0000	1.0000	1.0000
anneal	0.9872	0.9766	0.9769
antivirus	1.0000	1.0000	1.0000
anuran-f-b	1.0000	1.0000	1.0000
anxiety	0.0716	-0.0427	0.0000
apple-quality	0.8759	0.7500	0.7518
aps-failure	0.8880	0.7663	0.7749
arabidopsis1%	0.4980	0.0000	0.0000
arcene	0.7292	0.4231	0.4583
arrhythmia	0.6210	0.7101	0.7199
auction	0.9777	0.9544	0.9554
audiology	0.5143	0.6733	0.6840
audit-risk	1.0000	1.0000	1.0000
autism-adolescent	1.0000	1.0000	1.0000
autism-adult	1.0000	1.0000	1.0000
autism-child	1.0000	1.0000	1.0000
autos	0.9520	0.9340	0.9372
avila	0.9847	0.9882	0.9882
balance	0.6080	0.7395	0.7398
bank	0.7424	0.4730	0.4826
bankruptcy	1.0000	1.0000	1.0000
bio	0.9207	0.8335	0.8408
biodeg	0.8885	0.7768	0.7770
biomed	1.0000	1.0000	1.0000
Continued on next page			

Dataset	F1-macro	Kappa	MCC
bitcoin10%	0.2873	0.3013	0.3766
body-perf	0.7351	0.6448	0.6460
brain-tumor	0.5024	0.0047	0.0048
breast-cancer	0.6500	0.3000	0.3000
breast-cancer-ma	0.6333	0.2667	0.2667
breast-tissue	0.8470	0.7800	0.7879
bridges	0.8192	0.8485	0.8641
bub12at310k-hg16-17	0.6989	0.3462	0.3839
cad	1.0000	1.0000	1.0000
cancer	1.0000	1.0000	1.0000
cancer-uae	0.3156	-0.0014	0.0000
car-insurance	0.8074	0.6146	0.6149
cardiotocography-nsp	0.8926	0.8412	0.8426
cardiovascular	0.7193	0.4384	0.4386
cargo2k	1.0000	1.0000	1.0000
cars	0.8851	0.8178	0.8207
ccds10%	0.6780	0.0665	0.1854
cdc_diabetes	0.4209	0.2045	0.2332
census	0.7594	0.4776	0.5098
cervical-B	0.8563	0.7088	0.7122
cervical-H	0.6302	0.2561	0.2589
cervical-S	0.8046	0.5212	0.5936
children-anemia	0.8392	0.8904	0.8918
chrom19	0.9431	0.8844	0.8861
chrom211%	0.4998	0.0000	0.0000
churn	0.7420	0.4616	0.4808
cjs	0.9959	0.9956	0.9957
ckd	1.0000	1.0000	1.0000
clave	0.6319	0.6938	0.6966
cll_sub_111	0.6667	0.3333	0.3371
cmc	0.5354	0.3075	0.3092
cnae-9	0.9464	0.9375	0.9380
codon_usage	0.7737	0.9007	0.9012
coil20	1.0000	1.0000	1.0000
college	0.9018	0.8036	0.8036
collins	0.7741	0.8677	0.8708
colon-tumor	0.5000	0.0000	0.0000
colposcopies-1	0.8044	0.5892	0.6080
colposcopies-2	0.6575	0.2478	0.3056
colposcopies-4	0.7810	0.4649	0.5504
colposcopies-5	0.4423	-0.0610	0.0000
colposcopies-c	0.8560	0.6692	0.7091
column-2c	0.9262	0.8524	0.8524
column-3c	0.6845	0.6303	0.6338
connect-4	0.5747	0.4099	0.4235
coupon	0.7691	0.5337	0.5382
covtype	0.9317	0.9286	0.9288
covtypeCD	0.9798	0.9594	0.9596
covtypeT	0.9446	0.8886	0.8893
crabs	0.8521	0.8000	0.8027
creditcard_trans	0.9462	0.8862	0.8920
crowdsourced	0.8412	0.8793	0.8808
cryotherapy	0.7404	0.3721	0.4781
cultivars	0.6861	0.7097	0.7133
cybersecurity	0.1684	-0.0017	0.0000
cyclopentane	0.6181	0.2241	0.2358
cylinder-bands	0.8289	0.6534	0.6578
datatrieve	0.4800	0.0000	0.0000
Continued on next page			

Dataset	F1-macro	Kappa	MCC
dating	0.0996	-0.0005	0.0000
dbworld	1.0000	1.0000	1.0000
default	0.7071	0.3902	0.4104
dementia	1.0000	1.0000	1.0000
deposit	0.7351	0.4498	0.4661
depressed	0.6649	0.0675	0.1869
dermatology	0.9429	0.9325	0.9325
desharnais	0.7132	0.5789	0.5966
df_final	0.7711	0.6049	0.6631
DIA	0.7692	0.4286	0.5222
diabetes-100k	0.8924	0.7618	0.7829
diagnosis	1.0000	1.0000	1.0000
diamonds	1.0000	1.0000	1.0000
diamonds_all	0.7690	0.6768	0.6800
dishonest	1.0000	1.0000	1.0000
dlbcl-nih	0.4507	-0.0909	0.0000
dlbcl-stanford	1.0000	1.0000	1.0000
dna0.1%	0.4993	0.0000	0.0000
dota2	0.5694	0.1384	0.1388
drebin	0.9915	0.9828	0.9829
dropout	0.6929	0.6175	0.6259
ecoli	0.6755	0.7539	0.7558
ecoliCP-IM	1.0000	1.0000	1.0000
ecoliM	0.8825	0.7626	0.7650
ecoliMU	0.7292	0.4359	0.4543
ecoliOM	0.8514	0.6526	0.6960
ecommerce	0.1881	-0.0810	0.0000
euthyroid	0.8979	0.7944	0.7957
fakenews	0.5122	0.0245	0.0245
fbis-wc	0.7461	0.7896	0.7949
finance	0.7214	0.4369	0.4427
financial-risk	0.6634	0.8002	0.8048
flags	0.4640	0.6764	0.6933
forest	0.8906	0.8669	0.8710
gas	0.9967	0.9956	0.9956
gastrointestinal	0.8305	0.6981	0.7116
gender	0.4326	0.0883	0.0942
german	0.7136	0.3211	0.4121
gestures	0.9182	0.8904	0.8908
gina	0.9625	0.9250	0.9250
gisette	0.9714	0.9429	0.9429
glass	0.9209	0.8731	0.8815
glass-g2	0.8730	0.7143	0.7454
glassBWFP	0.9032	0.7879	0.8062
glassBWNFP	0.8955	0.7692	0.7906
glassContainers	0.8483	0.6452	0.6901
glassNW	0.9340	0.8591	0.8677
glassTableware	0.4884	0.0000	0.0000
GlaucomaM	0.8444	0.6851	0.6889
gli_85	1.0000	1.0000	1.0000
glioma	0.8333	0.7059	0.7500
glioma-grade	0.8172	0.6341	0.6343
green	0.5238	0.0476	0.0476
gsalc	1.0000	1.0000	1.0000
haberman	0.5379	0.0741	0.0754
hapt	0.8825	0.9557	0.9557
har	0.9961	0.9955	0.9955
harth10%	0.6637	0.8499	0.8509
Continued on next page			

Dataset	F1-macro	Kappa	MCC
health-activity	0.2175	0.0000	0.0000
heart	0.7666	0.5263	0.5330
heart-c	0.9330	0.8661	0.8661
heart-failure	0.9861	0.9720	0.9721
heart-quantum	0.9249	0.8387	0.8498
hepatitis	0.7917	0.5833	0.5833
higher	0.1492	0.0435	0.0523
hinselmann	0.4118	-0.1538	0.0000
hitters	0.8765	0.7470	0.7531
hiv1-proteasa	0.7936	0.5483	0.5820
hiva	0.5844	0.1005	0.1361
horse	0.4702	0.3533	0.4199
hotel-reservartions	0.9005	0.7994	0.8009
hr	0.4633	0.0000	0.0000
ht-sensor	0.9999	0.9999	0.9999
htru2	0.9322	0.8627	0.8643
hypothyroid	0.7438	0.9684	0.9684
immuno-therapy	0.8333	0.6087	0.6614
ionosphere	0.9038	0.8059	0.8076
iris	0.9333	0.8993	0.9054
irish	1.0000	1.0000	1.0000
isolet	0.8948	0.8865	0.8868
jm1	0.6578	0.2817	0.3078
javowels	0.9768	0.9761	0.9761
kc1-class-level-numericdefect	0.3733	0.3500	0.4677
kc1-class-level-top5percentDF	0.4643	-0.0714	0.0000
kc2	0.7165	0.4236	0.4317
kdc-4007	0.7920	0.7495	0.7508
kddcup991%	0.8926	0.9983	0.9983
kidney	0.1778	0.0000	0.0000
kidney-disease	1.0000	1.0000	1.0000
la2s-wc	0.8624	0.8601	0.8640
labor	1.0000	1.0000	1.0000
leaf	0.6405	0.6906	0.7002
led24	0.6865	0.6000	0.6052
lenses	1.0000	1.0000	1.0000
letter	0.9638	0.9625	0.9626
linkage1%	0.9879	0.9755	0.9758
loan	0.9851	0.9699	0.9701
lrs	0.6419	0.8165	0.8249
lung_discrete	1.0000	1.0000	1.0000
lymphography	0.5520	0.6000	0.6181
lymphoma2	0.7895	0.8500	0.8645
machine-failure	0.9124	0.8247	0.8247
magic04	0.8636	0.7250	0.7271
malware	1.0000	1.0000	1.0000
mammography	0.7625	0.5221	0.5249
marketing	0.7389	0.3971	0.4605
mba	0.3891	0.1638	0.1701
mental-disorders	0.9270	0.8889	0.8972
messidor	0.6400	0.2796	0.2800
meter-A	0.8000	0.5294	0.6000
meter-B	1.0000	1.0000	1.0000
meter-C	1.0000	1.0000	1.0000
meter-D	0.8784	0.8448	0.8561
mfeat-fac	0.9751	0.9722	0.9723
mfeat-fou	0.8036	0.7833	0.7839
mfeat-kar	0.9707	0.9667	0.9668
Continued on next page			

Dataset	F1-macro	Kappa	MCC
mfeat-mor	0.7125	0.6778	0.6781
mfeat-pix	0.9809	0.9778	0.9780
mfeat-zer	0.7882	0.7611	0.7615
mice-prot	1.0000	1.0000	1.0000
milk	1.0000	1.0000	1.0000
mines	0.5050	0.4106	0.4120
mobile	0.9456	0.9395	0.9397
monks-1	1.0000	1.0000	1.0000
monks-3	0.9653	0.9283	0.9307
mushroom	1.0000	1.0000	1.0000
music	0.5362	0.3912	0.3932
MUT_ci300400a_cdk_ECFP2	0.8213	0.6426	0.6426
MUT_ci300400a_cdk_ECFP4	0.8412	0.6823	0.6823
MUT_ci300400a_cdk_ECFP6	0.8078	0.6143	0.6157
MUT_ci300400a_cdk_ESTATE	0.7771	0.5515	0.5542
MUT_ci300400a_cdk_EXTENDED	0.3682	0.0000	0.0000
MUT_ci300400a_cdk_FCFP2	0.8346	0.6689	0.6692
MUT_ci300400a_cdk_FCFP4	0.3682	0.0000	0.0000
MUT_ci300400a_cdk_FCFP6	0.8340	0.6674	0.6680
MUT_ci300400a_cdk_MACCS	0.8594	0.7187	0.7187
MUT_ci300400a_cdk_PUBCHEM	0.8688	0.7369	0.7377
MUT_ci300400a_cdk_STANDARD	0.8465	0.6923	0.6929
MUT_ci300400a_rdkit_descriptors	0.8555	0.7110	0.7111
myocardial	0.3102	0.3867	0.4911
naticusdroid	0.9717	0.9434	0.9434
nci9	0.6222	0.6000	0.6211
ncRNA10%	0.7154	0.8419	0.8443
neo	0.7386	0.4638	0.4745
new-thyroid	1.0000	1.0000	1.0000
new-thyroidT	1.0000	1.0000	1.0000
newspop	0.6579	0.3152	0.3158
NHANES_age_prediction	1.0000	1.0000	1.0000
nomao	0.9618	0.9235	0.9236
nursery	0.9749	0.9864	0.9864
obesity	0.9437	0.9336	0.9342
obs	1.0000	1.0000	1.0000
oh0-wc	0.9394	0.9207	0.9215
oh10-wc	0.8180	0.8043	0.8074
oh15-wc	0.8573	0.8259	0.8281
oh5-wc	0.8346	0.8006	0.8026
olive	0.9174	0.9123	0.9157
optdigits	0.9683	0.9624	0.9625
orlraws10P	0.8743	0.8889	0.8989
ozone1hr	0.4899	-0.0072	0.0000
p53-mutants10%	0.4992	0.0000	0.0000
parkinson	0.9915	0.9828	0.9830
particle	0.9202	0.8405	0.8405
pc1	0.6396	0.2671	0.2754
pcmac	0.5322	0.0634	0.0644
pediatric-leukemia	0.6827	0.6710	0.6771
pendigits	0.9953	0.9949	0.9949
period-10f	0.5000	0.0000	0.0000
persistence	0.8113	0.6214	0.6227
personalities	0.9664	0.9641	0.9641
pet-adoption	0.9376	0.8722	0.8751
phishing	0.9743	0.9486	0.9486
PhiUSIL10%	1.0000	1.0000	1.0000
phy	0.7023	0.4043	0.4045
Continued on next page			

Dataset	F1-macro	Kappa	MCC
pima	0.6871	0.3569	0.3732
pirvision	0.9977	0.9959	0.9959
placement	0.7903	0.5799	0.5807
plrx	0.3571	-0.2632	0.0000
polya	0.7523	0.4973	0.5044
popularity	0.5398	0.2343	0.2563
post-operative	0.4000	0.0000	0.0000
postures	0.9865	0.9833	0.9834
pred-tox_mutagen_ref-desc	0.7207	0.4412	0.4414
prestige	0.8889	0.8302	0.8462
primary-tumor	0.3328	0.3203	0.3240
processed	1.0000	1.0000	1.0000
profb	0.6108	0.2064	0.2195
promoters	0.9083	0.8000	0.8165
puc-rio	0.9932	0.9948	0.9948
pufs-1281%	0.4946	-0.0106	0.0000
pufs-6410%	0.5004	0.0009	0.0009
pulsar	0.9560	0.9103	0.9120
raisin	0.8893	0.7778	0.7785
rejafada	1.0000	1.0000	1.0000
relathe	1.0000	1.0000	1.0000
rice	0.9873	0.9744	0.9745
rocket	0.6892	0.3783	0.3783
RT_IOT2022	0.9813	0.9976	0.9976
satimage	0.9024	0.8962	0.8970
scadi	0.6984	0.6316	0.6860
schiller	0.6786	0.3571	0.3571
sclerosis	1.0000	1.0000	1.0000
secom	0.4834	0.0000	0.0000
secondary_mushroom	1.0000	1.0000	1.0000
seeds	0.9553	0.9286	0.9317
segment	0.9656	0.9544	0.9550
segmentation	0.8411	0.6801	0.6822
segmentO	1.0000	1.0000	1.0000
seismic	0.4830	0.0000	0.0000
sens-2-gram	0.6856	0.1312	0.2650
sens-3-gram	0.6940	0.1618	0.2966
sens-4-gram	0.6559	0.1245	0.2283
sensorless	0.9985	0.9983	0.9983
shoppers	0.8056	0.6020	0.6101
sick	0.8957	0.7784	0.7902
sirtuin6	1.0000	1.0000	1.0000
smarket	0.9921	0.9840	0.9841
smk_can_187	0.6841	0.3596	0.3680
smoking	0.8286	0.6571	0.6571
soil_pollution	0.2362	0.0453	0.0454
solar-flare	0.6139	0.6793	0.6827
sonar	0.4415	-0.1000	0.0000
soybean	0.9944	0.9839	0.9841
spam-detection	0.8597	0.7187	0.7193
spambase	0.9499	0.8994	0.8998
spect	0.6021	0.2025	0.2039
spectf	0.8956	0.7692	0.7906
spectrometer	0.5855	0.6327	0.6372
squash-unstored	1.0000	1.0000	1.0000
startup	1.0000	1.0000	1.0000
steel_industry	0.8947	0.8640	0.8640
stellar	0.9734	0.9591	0.9591
Continued on next page			

Dataset	F1-macro	Kappa	MCC
stock	0.8772	0.7503	0.7541
stockb	0.9956	0.9934	0.9934
streaming	0.9960	0.9919	0.9919
stress	1.0000	1.0000	1.0000
student-depression	0.8225	0.6429	0.6450
student-habits	0.2325	-0.0782	0.0000
student-lifestyle	0.3834	0.2941	0.2971
student-weekend	0.2265	0.0873	0.0937
student-workday	0.1651	0.0000	0.0000
studentap	0.4579	0.1727	0.1743
swarm_aligned	1.0000	1.0000	1.0000
swarm_flocking	1.0000	1.0000	1.0000
swarm_grouped	1.0000	1.0000	1.0000
tae	0.6188	0.4000	0.4201
telco-churn	0.8553	0.7072	0.7104
texture	0.9813	0.9779	0.9780
theorem	0.9966	0.9933	0.9933
thoracic	0.4535	-0.0387	0.0000
Thyroid_Diff	0.9365	0.8648	0.8728
tis	0.4294	0.0000	0.0000
titanic	0.7934	0.5163	0.5813
tourist	0.5250	0.6364	0.6848
trains	0.3333	0.0000	0.0000
transfusion	0.4680	-0.0638	0.0000
tuandromd	0.9861	0.9722	0.9722
turkish	0.7696	0.7000	0.7041
tvnews	0.9553	0.9101	0.9107
ur3_cobotops_grip	0.7430	0.4138	0.4668
ur3_cobotops_stop	0.7391	0.4365	0.4676
urban	0.8354	0.8068	0.8091
ustilago10%	0.4973	0.0000	0.0000
vehicle	0.7683	0.7418	0.7427
vote	0.9307	0.8605	0.8615
vowel	0.6903	0.6333	0.6388
wap-wc	0.5790	0.7687	0.7734
warpar10p	0.8330	0.8267	0.8379
warppie10p	1.0000	1.0000	1.0000
waveform	0.8562	0.7840	0.7843
weather-related	0.9821	0.9782	0.9783
weight-lift	0.9997	0.9997	0.9997
white-clover	0.2500	-0.5000	0.0000
wifi-loc	0.9902	0.9867	0.9868
wilt	0.9068	0.8096	0.8133
wine	1.0000	1.0000	1.0000
winequality-red	0.3344	0.4954	0.4968
winequality-white	0.4712	0.5099	0.5154
winnipeg10%	0.9945	0.9915	0.9915
wisc.bc	1.0000	1.0000	1.0000
yale	0.6126	0.5983	0.6086
yeast	0.4503	0.4843	0.4914
yeastCYT-POX	0.9047	0.7897	0.8078
yeastEXC	0.6366	0.2688	0.2717
yeastME1	0.7662	0.3934	0.4949
yeastME2	0.7218	0.2410	0.3702
zip	0.9455	0.9434	0.9434

Table 33: Detailed results for PURF

Dataset	F1-macro	Kappa	MCC
abalone	0.0726	0.0577	0.0672
abalone19	0.4982	0.0000	0.0000
accelerometer	0.6501	0.1265	0.2403
ads	0.4583	0.0000	0.0000
adult	0.7686	0.4574	0.5154
advanced-iot	0.0480	0.0000	0.0000
AID_1431	0.4772	0.0000	0.0000
AID_1431_KlekotaRothFingerprinter	0.4832	0.0000	0.0000
AID_1431_MACCSFingerprinter	0.4772	0.0000	0.0000
AID_1878	0.4503	0.0000	0.0000
AID_602330	0.4894	0.0000	0.0000
AID_652128	0.3118	0.0000	0.0000
AID1284red	0.4627	0.0000	0.0000
AID1608Morered	0.0629	0.0000	0.0000
AID1608red	0.4850	0.0000	0.0000
AID362red	0.1277	-0.0012	0.0000
AID373AID439red	0.0002	0.0000	0.0000
AID373red	0.0010	0.0000	0.0000
AID456red	0.2900	0.0040	0.0457
AID604	0.0035	0.0000	0.0000
AID604AID644_AllRed	0.5002	0.0000	0.0000
AID687AID721red	0.5969	0.0013	0.0258
AID687red	0.5529	0.0042	0.0316
AID688red	0.5263	0.0027	0.0145
AID721morered	0.4375	0.0000	0.0000
AID721red	0.4375	0.0000	0.0000
AID746AID1284red	0.0010	0.0000	0.0000
AID746red	0.0061	0.0000	0.0000
aids	0.4305	0.0000	0.0000
air_pollution	0.0826	0.0000	0.0000
alcohol	0.1640	0.0000	0.0000
all-aml	0.4000	0.0000	0.0000
anneal	0.3326	0.3252	0.4444
antivirus	0.9005	0.8021	0.8183
anuran-f-b	0.4440	-0.0161	0.0000
anxiety	0.0548	-0.0364	0.0000
apple-quality	0.7600	0.5200	0.5201
aps-failure	0.4880	0.0000	0.0000
arabidopsis1%	0.0079	0.0000	0.0000
arcene	0.6491	0.3396	0.3852
arrhythmia	0.0714	0.0000	0.0000
auction	0.4660	0.0000	0.0000
audiology	0.0390	0.0000	0.0000
audit-risk	0.8867	0.7760	0.7963
autism-adolescent	0.6118	0.2979	0.4183
autism-adult	0.4215	0.0000	0.0000
autism-child	0.8199	0.6506	0.6944
autos	0.3676	0.2958	0.3820
avila	0.5076	0.4108	0.4249
balance	0.6449	0.8786	0.8856
bank	0.7123	0.3332	0.3755
bankruptcy	1.0000	1.0000	1.0000
bio	0.4926	0.0000	0.0000
biodeg	0.3824	0.0000	0.0000
biomed	0.6062	0.2921	0.4136
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Dataset	F1-macro	Kappa	MCC
bitcoin10%	0.1996	0.0043	0.0424
body-perf	0.6526	0.5400	0.5573
brain-tumor	0.4994	0.0091	0.0090
breast-cancer	0.5366	0.1695	0.3043
breast-cancer-ma	0.3547	0.0000	0.0000
breast-tissue	0.7222	0.7800	0.8042
bridges	0.2857	0.2593	0.3944
bub12at310k-hg16-17	0.6902	0.2780	0.3547
cad	1.0000	1.0000	1.0000
cancer	0.9674	0.9348	0.9368
cancer-uae	0.3133	0.0117	0.0121
car-insurance	0.4893	-0.0270	0.0000
cardiotocography-nsp	0.4394	0.1775	0.2993
cardiovascular	0.3304	0.0000	0.0000
cargo2k	0.5957	0.5127	0.6073
cars	0.4859	0.2954	0.3207
ccds10%	0.0370	0.0000	0.0000
cdc_diabetes	0.3012	0.0000	0.0000
census	0.4797	0.0000	0.0000
cervical-B	0.4819	0.0000	0.0000
cervical-H	0.4881	0.0000	0.0000
cervical-S	0.4756	0.0000	0.0000
children-anemia	0.3881	0.1636	0.1634
chrom19	0.5020	0.0000	0.0000
chrom211%	0.5030	0.0000	0.0000
churn	0.5434	0.0955	0.1042
cjs	0.0717	0.0050	0.0496
ckd	0.9430	0.8864	0.8921
clave	0.5610	0.6674	0.6901
cll_sub_111	0.0963	0.0000	0.0000
cmc	0.3300	0.0047	0.0048
cnae-9	0.0223	0.0000	0.0000
codon_usage	0.4411	0.4638	0.4612
coil20	0.0046	0.0000	0.0000
college	0.7779	0.5694	0.6309
collins	0.0184	0.0000	0.0000
colon-tumor	0.4000	0.0000	0.0000
colposcopies-1	0.3958	0.0000	0.0000
colposcopies-2	0.3830	0.0000	0.0000
colposcopies-4	0.4200	0.0000	0.0000
colposcopies-5	0.4528	0.0000	0.0000
colposcopies-c	0.5650	0.2018	0.3350
column-2c	0.6922	0.4055	0.4479
column-3c	0.6845	0.6213	0.6325
connect-4	0.0068	0.0000	0.0000
coupon	0.6811	0.3528	0.3570
covtype	0.0744	0.0000	0.0000
covtypeCD	0.1484	-0.0878	0.0000
covtypeT	0.7284	0.3360	0.4406
crabs	0.7917	0.7333	0.7537
creditcard_trans	0.4969	0.0000	0.0000
crowdsourced	0.7625	0.7680	0.7537
cryotherapy	0.8831	0.7692	0.7906
cultivars	0.1760	0.2258	0.2305
cybersecurity	0.1187	-0.0019	0.0000
cyclopentane	0.5559	0.1964	0.2564
cylinder-bands	0.3647	0.0000	0.0000
datatrieve	0.4800	0.0000	0.0000

Continued on next page

Dataset	F1-macro	Kappa	MCC
dating	0.0186	0.0000	0.0000
dbworld	0.3636	0.0000	0.0000
default	0.6690	0.3044	0.3404
dementia	0.9799	0.9599	0.9606
deposit	0.7047	0.3151	0.3781
depressed	0.5039	0.0112	0.0121
dermatology	0.9446	0.9320	0.9337
desharnais	0.2564	0.0000	0.0000
df_final	0.1818	0.0000	0.0000
DIA	0.4286	0.0000	0.0000
diabetes-100k	0.4741	0.0000	0.0000
diagnosis	1.0000	1.0000	1.0000
diamonds	0.6776	0.7865	0.8018
diamonds_all	0.4791	0.4246	0.4345
dishonest	1.0000	1.0000	1.0000
dlbcl-nih	0.3684	0.0000	0.0000
dlbcl-stanford	0.2857	0.0000	0.0000
dna0.1%	0.5991	0.0139	0.0681
dota2	0.3223	0.0000	0.0000
drebin	0.6816	0.4189	0.4785
dropout	0.4717	0.3668	0.4592
ecoli	0.3980	0.6057	0.6280
ecoliCP-IM	1.0000	1.0000	1.0000
ecoliM	0.8563	0.7163	0.7470
ecoliMU	0.4762	0.0000	0.0000
ecoliOM	0.4844	0.0000	0.0000
ecommerce	0.1792	0.0032	0.0046
euthyroid	0.4742	0.0000	0.0000
fakenews	0.4156	0.0270	0.0473
fbis-wc	0.0041	0.0000	0.0000
finance	0.5433	0.1314	0.1475
financial-risk	0.3510	0.4275	0.4749
flags	0.0659	0.0000	0.0000
forest	0.5325	0.4827	0.5577
gas	0.0983	-0.0833	0.0000
gastrointestinal	0.2222	0.0000	0.0000
gender	0.2396	-0.0365	0.0000
german	0.3939	0.0000	0.0000
gestures	0.8409	0.8038	0.8021
gina	0.7629	0.5465	0.6017
gisette	0.9026	0.8043	0.8371
glass	0.5610	0.7181	0.7358
glass-g2	0.5429	0.2000	0.3333
glassBWFP	0.5051	0.1503	0.2850
glassBWNFP	0.4000	0.0000	0.0000
glassContainers	0.4762	0.0000	0.0000
glassNW	0.8456	0.6957	0.7303
glassTableware	0.4884	0.0000	0.0000
GlaucomaM	0.6833	0.3667	0.3667
gli_85	0.2027	0.0000	0.0000
glioma	0.7778	0.7059	0.7500
glioma-grade	0.8668	0.7339	0.7358
green	0.4118	0.0000	0.0000
gsalc	1.0000	1.0000	1.0000
haberman	0.4118	-0.0630	0.0000
hapt	0.0012	0.0000	0.0000
har	0.2143	0.0141	0.0144
harth10%	0.5506	0.6645	0.6628
Continued on next page			

Dataset	F1-macro	Kappa	MCC
health-activity	0.2175	0.0000	0.0000
heart	0.7970	0.5994	0.6175
heart-c	0.7000	0.4444	0.5345
heart-failure	0.6401	0.2925	0.2928
heart-quantum	0.8217	0.6491	0.6728
hepatitis	0.4444	0.0000	0.0000
higher	0.0469	0.0128	0.0304
hinselmann	0.4444	0.0000	0.0000
hitters	0.3469	0.0000	0.0000
hiv1-proteasa	0.4406	0.0082	0.0108
hiva	0.0341	0.0000	0.0000
horse	0.2303	0.0000	0.0000
hotel-reservartions	0.3982	0.0000	0.0000
hr	0.4633	0.0000	0.0000
ht-sensor	0.1688	0.0000	0.0000
htru2	0.0847	-0.1055	0.0000
hypothyroid	0.2382	0.0000	0.0000
immuno-therapy	0.4375	0.0000	0.0000
ionosphere	0.4971	0.1206	0.2533
iris	1.0000	1.0000	1.0000
irish	1.0000	1.0000	1.0000
isolet	0.0028	0.0000	0.0000
jm1	0.4017	-0.0347	0.0000
jvowels	0.6972	0.6455	0.6494
kc1-class-level-numericdefect	0.1636	0.0000	0.0000
kc1-class-level-top5percentDF	0.4828	0.0000	0.0000
kc2	0.5165	0.0949	0.1413
kdc-4007	0.0377	0.0000	0.0000
kddcup991%	0.6000	0.6223	0.6488
kidney	0.1761	0.0000	0.0000
kidney-disease	0.9451	0.8904	0.8958
la2s-wc	0.0318	0.0000	0.0000
labor	0.7778	0.5714	0.6325
leaf	0.5149	0.5685	0.5845
led24	0.0290	0.0000	0.0000
lenses	0.1667	0.0000	0.0000
letter	0.8905	0.8785	0.9136
linkage1%	0.9853	1.0000	0.9910
loan	0.5378	0.1935	0.3273
lrs	0.3405	0.3467	0.4368
lung_discrete	0.0800	0.0000	0.0000
lymphography	0.4815	0.4167	0.4344
lymphoma2	0.1026	0.0000	0.0000
machine-failure	0.9018	0.8035	0.8037
magic04	0.5331	0.0759	0.0766
malware	0.9533	0.9068	0.9108
mammography	0.8437	0.6883	0.6921
marketing	0.4602	0.0000	0.0000
mba	0.2161	-0.0357	0.0000
mental-disorders	0.6667	0.5556	0.5774
messidor	0.6608	0.3301	0.3386
meter-A	0.8545	0.7143	0.7454
meter-B	0.1921	-0.1668	0.0000
meter-C	0.5971	0.4592	0.5496
meter-D	0.5000	0.5135	0.6005
mfeat-fac	0.8916	0.8833	0.8863
mfeat-fou	0.6654	0.6444	0.6535
mfeat-kar	0.8596	0.8444	0.8462
Continued on next page			

Dataset	F1-macro	Kappa	MCC
mfeat-mor	0.6699	0.6389	0.6398
mfeat-pix	0.9703	0.9667	0.9669
mfeat-zer	0.7050	0.6944	0.6965
mice-prot	0.8285	0.8405	0.8471
milk	0.9021	0.8555	0.8574
mines	0.4476	0.4093	0.4331
mobile	0.8316	0.8400	0.8453
monks-1	0.8176	0.6358	0.6375
monks-3	0.9642	0.9285	0.9285
mushroom	1.0000	0.9918	1.0000
music	0.4689	0.3403	0.3456
MUT_ci300400a_cdk_ECFP2	0.2932	0.0000	0.0000
MUT_ci300400a_cdk_ECFP4	0.2918	0.0000	0.0000
MUT_ci300400a_cdk_ECFP6	0.2917	0.0000	0.0000
MUT_ci300400a_cdk_ESTATE	0.6961	0.3757	0.3862
MUT_ci300400a_cdk_EXTENDED	0.2983	0.0000	0.0000
MUT_ci300400a_cdk_FCFP2	0.6860	0.3929	0.4161
MUT_ci300400a_cdk_FCFP4	0.2966	0.0000	0.0000
MUT_ci300400a_cdk_FCFP6	0.2940	0.0000	0.0000
MUT_ci300400a_cdk_MACCS	0.6399	0.2935	0.3207
MUT_ci300400a_cdk_PUBCHEM	0.2931	0.0000	0.0000
MUT_ci300400a_cdk_STANDARD	0.2938	0.0000	0.0000
MUT_ci300400a_rdkit_descriptors	0.4316	0.0407	0.0631
myocardial	0.1142	0.0000	0.0000
naticusdroid	0.9336	0.8336	0.8386
nci9	0.0476	0.0000	0.0000
ncRNA10%	0.0470	0.0000	0.0000
neo	0.4725	0.0000	0.0000
new-thyroid	0.4524	0.2391	0.3708
new-thyroidT	0.7237	0.4615	0.5477
newspop	0.6547	0.2933	0.2941
NHANES_age_prediction	0.4851	0.0459	0.1532
nomao	0.9021	0.7782	0.7873
nursery	0.9426	0.9453	0.9682
obesity	0.5274	0.4886	0.5063
obs	0.7914	0.6714	0.6786
oh0-wc	0.0111	0.0000	0.0000
oh10-wc	0.0206	0.0000	0.0000
oh15-wc	0.0121	0.0000	0.0000
oh5-wc	0.0143	0.0000	0.0000
olive	0.8486	0.8427	0.8525
optdigits	0.9692	0.9511	0.9710
orlraws10P	0.0182	0.0000	0.0000
ozone1hr	0.4909	0.0000	0.0000
p53-mutants10%	0.4992	0.0000	0.0000
parkinson	0.6791	0.4073	0.5057
particle	0.8705	0.7268	0.7502
pc1	0.4813	0.0000	0.0000
pcmac	0.2932	0.0000	0.0000
pediatric-leukemia	0.1468	0.1923	0.2310
pendigits	0.7647	0.7475	0.7370
period-10f	0.4000	0.0000	0.0000
persistence	0.4797	0.1050	0.1993
personalities	0.0074	0.0000	0.0000
pet-adoption	0.7036	0.4388	0.5192
phishing	0.9343	0.8689	0.8729
PhiUSIL10%	0.3695	0.0000	0.0000
phy	0.6986	0.3691	0.3642
Continued on next page			

Dataset	F1-macro	Kappa	MCC
pima	0.4124	0.0401	0.1430
pirvision	0.0843	-0.1858	0.0000
placement	0.4714	-0.0420	0.0000
plrx	0.4194	0.0000	0.0000
polya	0.5071	0.0038	0.0038
popularity	0.4825	0.1882	0.2191
post-operative	0.4000	0.0000	0.0000
postures	0.9230	0.9053	0.8912
pred-tox_mutagen_ref-desc	0.6314	0.2941	0.3227
prestige	0.7556	0.6327	0.6797
primary-tumor	0.2188	0.2556	0.3076
processed	0.4062	0.0000	0.0000
profb	0.4018	0.0000	0.0000
promoters	0.2857	0.0000	0.0000
puc-rio	0.9560	0.9723	0.9620
pufs-1281%	0.3369	0.0000	0.0000
pufs-6410%	0.3314	0.0000	0.0000
pulsar	0.1129	-0.0929	0.0000
raisin	0.8774	0.7556	0.7603
rejafada	0.4910	0.0000	0.0000
relathe	0.3529	0.0000	0.0000
rice	0.0276	-0.9237	0.0000
rocket	0.4002	-0.0748	0.0000
RT_IOT2022	0.0053	0.0000	0.0000
satimage	0.8301	0.8489	0.8636
scadi	0.5048	0.5882	0.6299
schiller	0.4375	0.0000	0.0000
sclerosis	0.9233	0.8475	0.8575
secom	0.4889	0.0000	0.0000
secondary_mushroom	0.3601	0.0000	0.0000
seeds	0.9521	0.9286	0.9317
segment	0.8142	0.7925	0.8010
segmentation	0.5224	0.1618	0.2769
segmentO	0.4603	0.0000	0.0000
seismic	0.4830	0.0000	0.0000
sens-2-gram	0.4648	0.0000	0.0000
sens-3-gram	0.4648	0.0000	0.0000
sens-4-gram	0.4648	0.0000	0.0000
sensorless	0.9665	0.9822	0.9788
shoppers	0.4180	-0.0367	0.0000
sick	0.4829	0.0000	0.0000
sirtuin6	0.8990	0.8000	0.8165
smarket	0.6303	0.3336	0.4314
smk_can_187	0.7368	0.4751	0.4778
smoking	0.3913	0.0000	0.0000
soil_pollution	0.1753	0.0482	0.0559
solar-flare	0.4940	0.5135	0.5318
sonar	0.4357	0.1000	0.2294
soybean	0.7709	0.8038	0.8215
spam-detection	0.0732	-0.1376	0.0000
spambase	0.3471	-0.2330	0.0000
spect	0.6318	0.2703	0.2786
spectf	0.4167	0.0000	0.0000
spectrometer	0.1682	0.2655	0.3009
squash-unstored	1.0000	1.0000	1.0000
startup	0.3922	0.0000	0.0000
steel_industry	0.7433	0.6454	0.6554
stellar	0.9270	0.8438	0.8921
Continued on next page			

Dataset	F1-macro	Kappa	MCC
stock	0.5613	0.1596	0.2470
stockb	0.7716	0.6698	0.6803
streaming	0.6535	0.3612	0.4429
stress	1.0000	1.0000	1.0000
student-depression	0.8082	0.6518	0.6503
student-habits	0.1686	0.0105	0.0119
student-lifestyle	0.2880	0.3612	0.3802
student-weekend	0.1111	0.0000	0.0000
student-workday	0.1651	0.0000	0.0000
studentap	0.1852	0.0000	0.0000
swarm_aligned	0.4120	0.0000	0.0000
swarm_flocking	0.3308	0.0000	0.0000
swarm_grouped	0.9953	1.0000	0.9834
tae	0.5370	0.3000	0.3062
telco-churn	0.8033	0.6113	0.6297
texture	0.4474	0.4001	0.4108
theorem	0.3353	-0.2977	0.0000
thoracic	0.4598	0.0000	0.0000
Thyroid_Diff	0.8106	0.6303	0.6784
tis	0.1980	0.0000	0.0000
titanic	0.7401	0.5021	0.5701
tourist	0.1333	0.0000	0.0000
trains	0.3291	0.0000	0.0000
transfusion	0.4275	-0.0259	0.0000
tuandromd	0.8245	0.6344	0.6765
turkish	0.6592	0.6000	0.6194
tvnews	0.2641	0.0000	0.0000
ur3_cobotops_grip	0.1289	-0.0162	0.0000
ur3_cobotops_stop	0.1381	-0.0208	0.0000
urban	0.4978	0.5730	0.5862
ustilago10%	0.0105	0.0000	0.0000
vehicle	0.5821	0.5179	0.5263
vote	0.9065	0.8147	0.8290
vowel	0.5258	0.5111	0.5284
wap-wc	0.0013	0.0000	0.0000
warpar10p	0.6333	0.6556	0.6736
warppie10p	1.0000	1.0000	1.0000
waveform	0.8428	0.7412	0.7597
weather-related	0.3581	0.2469	0.2518
weight-lift	0.8403	0.7947	0.7884
white-clover	0.4000	0.0000	0.0000
wifi-loc	0.9851	0.9800	0.9802
wilt	0.4873	0.0000	0.0000
wine	1.0000	1.0000	1.0000
winequality-red	0.1630	0.0554	0.0630
winequality-white	0.1792	0.0756	0.0864
winnipeg10%	0.8934	0.9306	0.9625
wisc.bc	0.9415	0.8834	0.8895
yale	0.5822	0.6000	0.6237
yeast	0.2901	0.2304	0.2331
yeastCYT-POX	0.8281	0.6573	0.6997
yeastEXC	0.3789	0.0289	0.0884
yeastME1	0.3479	-0.0021	0.0000
yeastME2	0.3395	-0.0185	0.0000
zip	0.8898	0.8598	0.8603

Table 34: Detailed results for RerF

Dataset	F1-macro	Kappa	MCC
abalone	0.0735	0.0508	0.0534
abalone19	0.4977	0.0000	0.0000
accelerometer	0.4955	0.0000	0.0000
ads	0.8936	0.7633	0.7856
adult	0.7816	0.5675	0.5738
advanced-iot	0.9917	0.9966	0.9881
AID_1431	0.4772	0.0000	0.0000
AID_1431_KlekotaRothFingerprinter	0.4772	0.0000	0.0000
AID_1431_MACCSFingerprinter	0.4772	0.0000	0.0000
AID_1878	0.4503	0.0000	0.0000
AID_602330	0.4894	0.0000	0.0000
AID_652128	0.3118	0.0000	0.0000
AID1284red	0.4375	-0.1163	0.0000
AID1608Morered	0.4824	0.0000	0.0000
AID1608red	0.4850	0.0000	0.0000
AID362red	0.4965	0.0000	0.0000
AID373AID439red	0.5000	0.0000	0.0000
AID373red	0.4997	0.0000	0.0000
AID456red	0.4992	0.0000	0.0000
AID604	0.4991	0.0000	0.0000
AID604AID644_AllRed	0.4997	0.0000	0.0000
AID687AID721red	0.4998	0.0000	0.0000
AID687red	0.4992	0.0000	0.0000
AID688red	0.4977	0.0000	0.0000
AID721morered	0.4000	-0.1739	0.0000
AID721red	0.4000	-0.1739	0.0000
AID746AID1284red	0.4997	0.0000	0.0000
AID746red	0.4985	0.0000	0.0000
aids	0.8173	0.6081	0.6326
air_pollution	0.0826	0.0000	0.0000
alcohol	0.3343	0.2045	0.3009
all-aml	1.0000	1.0000	1.0000
anneal	0.7856	0.9523	0.9526
antivirus	1.0000	1.0000	1.0000
anuran-f-b	0.9626	0.9224	0.9252
anxiety	0.1346	0.0232	0.0236
apple-quality	0.8701	0.7400	0.7401
aps-failure	0.8463	0.6591	0.6874
arabidopsis1%	0.4980	0.0000	0.0000
arcene	0.7292	0.4231	0.4583
arrhythmia	0.3556	0.4063	0.4363
auction	0.8692	0.7261	0.7374
audiology	0.7424	0.8390	0.8453
audit-risk	1.0000	1.0000	1.0000
autism-adolescent	0.8451	0.6452	0.6901
autism-adult	0.9820	0.9633	0.9639
autism-child	1.0000	1.0000	1.0000
autos	0.9243	0.8680	0.8768
avila	0.8916	1.0000	1.0000
balance	0.6335	0.8485	0.8552
bank	0.6876	0.2743	0.3443
bankruptcy	1.0000	1.0000	1.0000
bio	0.8832	0.7411	0.7634
biodeg	0.8203	0.6400	0.6405
biomed	1.0000	1.0000	1.0000
Continued on next page			

Dataset	F1-macro	Kappa	MCC
bitcoin10%	0.1623	0.0462	0.1304
body-perf	0.6928	0.5910	0.5929
brain-tumor	0.5068	0.0134	0.0137
breast-cancer	0.8250	0.5882	0.6455
breast-cancer-ma	0.5222	0.0351	0.0430
breast-tissue	0.7179	0.6733	0.6869
bridges	0.4750	0.5161	0.5521
bub12at310k-hg16-17	0.6815	0.2754	0.3353
cad	1.0000	1.0000	1.0000
cancer	1.0000	1.0000	1.0000
cancer-uae	0.2913	-0.0573	0.0000
car-insurance	0.8050	0.6070	0.6100
cardiotocography-nsp	0.8216	0.7548	0.7584
cardiovascular	0.7383	0.4660	0.4811
cargo2k	1.0000	1.0000	1.0000
cars	0.6570	0.5354	0.5360
ccds10%	0.4902	0.0000	0.0000
cdc_diabetes	0.3982	0.0029	0.0302
census	0.7544	0.4665	0.4993
cervical-B	0.7273	0.4173	0.4455
cervical-H	0.6708	0.3120	0.3323
cervical-S	0.8481	0.6446	0.6896
children-anemia	0.6982	0.8879	0.8903
chrom19	0.9212	0.8314	0.8415
chrom211%	0.4998	0.0000	0.0000
churn	0.7271	0.4071	0.4462
cjs	0.9897	0.9869	0.9869
ckd	1.0000	1.0000	1.0000
clave	0.5584	0.6690	0.6871
cll_sub_111	0.6157	0.2857	0.2897
cmc	0.5221	0.2841	0.2843
cnae-9	0.9413	0.9271	0.9282
codon_usage	0.7227	0.8801	0.8807
coil20	0.9874	0.9854	0.9855
college	0.9172	0.8338	0.8343
collins	0.7663	0.8010	0.8064
colon-tumor	0.7526	0.4057	0.5012
colposcopies-1	0.6372	0.2714	0.2743
colposcopies-2	0.8523	0.6963	0.7045
colposcopies-4	0.4821	-0.0357	0.0000
colposcopies-5	0.6238	0.2077	0.2360
colposcopies-c	0.5964	0.1920	0.1927
column-2c	0.9262	0.8524	0.8524
column-3c	0.7547	0.6804	0.6856
connect-4	0.6252	0.4345	0.4903
coupon	0.7070	0.4082	0.4139
covtype	0.8278	0.8159	0.8172
covtypeCD	0.9604	0.9202	0.9207
covtypeT	0.8560	0.7365	0.7253
crabs	1.0000	1.0000	1.0000
creditcard_trans	0.9048	0.7949	0.8082
crowdsourced	0.8558	0.8842	0.8851
cryotherapy	0.8163	0.5714	0.6325
cultivars	0.5082	0.5484	0.5534
cybersecurity	0.1956	0.0360	0.0366
cyclopentane	0.9309	0.8525	0.8619
cylinder-bands	0.7177	0.4351	0.4355
datatrieve	0.4583	-0.0833	0.0000
Continued on next page			

Dataset	F1-macro	Kappa	MCC
dating	0.1001	-0.0008	0.0000
dbworld	1.0000	1.0000	0.9890
default	0.7075	0.3781	0.4087
dementia	1.0000	1.0000	1.0000
deposit	0.6858	0.2890	0.3475
depressed	0.5828	0.0525	0.1059
dermatology	0.9429	0.9325	0.9325
desharnais	0.5388	0.5152	0.5323
df_final	0.7711	0.6049	0.6631
DIA	0.6497	0.2821	0.2964
diabetes-100k	0.8922	0.7594	0.7823
diagnosis	1.0000	1.0000	1.0000
diamonds	1.0000	1.0000	1.0000
diamonds_all	0.7372	0.6435	0.6533
dishonest	1.0000	1.0000	1.0000
dlbcl-nih	0.3839	-0.2000	0.0000
dlbcl-stanford	0.7059	0.2857	0.4082
dna0.1%	0.4993	0.0000	0.0000
dota2	0.5610	0.1218	0.1221
drebin	0.9593	0.9178	0.9187
dropout	0.6601	0.5842	0.5949
ecoli	0.6016	0.7500	0.7628
ecoliCP-IM	0.2667	0.0000	0.0000
ecoliM	0.8150	0.6347	0.6594
ecoliMU	0.7292	0.4359	0.4543
ecoliOM	0.8514	0.6526	0.6960
ecommerce	0.2015	-0.0561	0.0000
euthyroid	0.8736	0.7330	0.7458
fakenews	0.4922	-0.0157	0.0000
fbis-wc	0.6955	0.7763	0.7801
finance	0.6184	0.2267	0.2365
financial-risk	0.5869	0.7011	0.7138
flags	0.5777	0.6815	0.7025
forest	0.8673	0.8392	0.8478
gas	0.9963	0.9956	0.9956
gastrointestinal	0.4710	0.3684	0.3938
gender	0.4856	0.0901	0.1176
german	0.6432	0.2519	0.2819
gestures	0.9088	0.8779	0.8786
gina	0.9107	0.8211	0.8215
gisette	0.9543	0.9086	0.9086
glass	0.5464	0.5962	0.6002
glass-g2	0.8091	0.6129	0.6181
glassBWFP	0.9032	0.7879	0.8062
glassBWNFP	0.7771	0.5385	0.5534
glassContainers	1.0000	1.0000	1.0000
glassNW	0.9340	0.8591	0.8677
glassTableware	1.0000	1.0000	1.0000
GlaucomaM	0.8444	0.6851	0.6889
gli_85	0.7241	0.3333	0.4472
glioma	0.8333	0.7059	0.7500
glioma-grade	0.8813	0.7590	0.7626
green	0.4553	-0.0870	0.0000
gsalc	0.9167	0.8657	0.8788
haberman	0.5793	0.1045	0.1410
hapt	0.8691	0.9524	0.9525
har	0.9735	0.9684	0.9685
harth10%	0.6654	0.8508	0.8517
Continued on next page			

Dataset	F1-macro	Kappa	MCC
health-activity	0.2175	0.0000	0.0000
heart	0.7264	0.4392	0.4524
heart-c	0.9067	0.7964	0.8134
heart-failure	0.9700	0.9383	0.9401
heart-quantum	0.9167	0.8333	0.8333
hepatitis	0.8544	0.6667	0.7071
higher	0.0536	0.0253	0.0371
hinselmann	0.5519	0.0909	0.1021
hitters	0.8477	0.6825	0.6953
hiv1-proteasa	0.7634	0.4949	0.5219
hiva	0.6382	0.1986	0.2454
horse	0.4869	0.3455	0.4308
hotel-reservartions	0.8766	0.7511	0.7532
hr	0.4633	0.0000	0.0000
ht-sensor	0.9992	0.9988	0.9988
htru2	0.9333	0.8619	0.8664
hypothyroid	0.7272	0.9385	0.9390
immuno-therapy	0.6786	0.3571	0.3571
ionosphere	0.9671	0.9320	0.9342
iris	0.9389	0.9000	0.9061
irish	0.9800	0.9592	0.9600
isolet	0.9066	0.8985	0.8989
jm1	0.6407	0.2182	0.2635
javowels	0.9706	0.9681	0.9682
kc1-class-level-numericdefect	0.5122	0.4868	0.5046
kc1-class-level-top5percentDF	0.4231	-0.1111	0.0000
kc2	0.5859	0.0949	0.1413
kdc-4007	0.7548	0.7029	0.7044
kddcup991%	0.8243	0.9973	0.9973
kidney	0.1778	0.0000	0.0000
kidney-disease	0.9737	0.9459	0.9473
la2s-wc	0.8374	0.8264	0.8305
labor	0.8537	0.6667	0.7071
leaf	0.6857	0.6909	0.7012
led24	0.6377	0.5442	0.5473
lenses	1.0000	1.0000	1.0000
letter	0.9445	0.9423	0.9423
linkage1%	0.9755	0.9498	0.9510
loan	0.9803	0.9603	0.9605
lrs	0.6153	0.7379	0.7490
lung_discrete	0.9164	0.8400	0.8573
lymphography	0.8456	0.6147	0.6205
lymphoma2	0.6027	0.6842	0.7120
machine-failure	0.8685	0.7371	0.7371
magic04	0.8390	0.6653	0.6658
malware	1.0000	1.0000	1.0000
mammography	0.8543	0.7080	0.7086
marketing	0.7417	0.3758	0.4591
mba	0.3041	0.0000	0.0000
mental-disorders	0.9270	0.8889	0.8972
messidor	0.7083	0.3685	0.4163
meter-A	0.7241	0.3333	0.4472
meter-B	1.0000	1.0000	1.0000
meter-C	1.0000	1.0000	1.0000
meter-D	0.8599	0.7750	0.7983
mfeat-fac	0.9661	0.9611	0.9614
mfeat-fou	0.7666	0.7389	0.7401
mfeat-kar	0.9767	0.9722	0.9725
Continued on next page			

Dataset	F1-macro	Kappa	MCC
mfeat-mor	0.7088	0.6667	0.6689
mfeat-pix	0.9715	0.9667	0.9670
mfeat-zer	0.7855	0.7611	0.7620
mice-prot	0.9913	0.9894	0.9895
milk	1.0000	1.0000	1.0000
mines	0.3761	0.1966	0.2009
mobile	0.9488	0.9430	0.9433
monks-1	0.8044	0.5985	0.6088
monks-3	0.9642	0.9285	0.9285
mushroom	1.0000	1.0000	1.0000
music	0.4742	0.3378	0.3403
MUT_ci300400a_cdk_ECFP2	0.7884	0.5764	0.5769
MUT_ci300400a_cdk_ECFP4	0.7821	0.5615	0.5643
MUT_ci300400a_cdk_ECFP6	0.7656	0.5312	0.5313
MUT_ci300400a_cdk_ESTATE	0.7620	0.5235	0.5239
MUT_ci300400a_cdk_EXTENDED	0.7696	0.5376	0.5392
MUT_ci300400a_cdk_FCFP2	0.8083	0.6164	0.6167
MUT_ci300400a_cdk_FCFP4	0.7623	0.5237	0.5245
MUT_ci300400a_cdk_FCFP6	0.7685	0.5361	0.5370
MUT_ci300400a_cdk_MACCS	0.7887	0.5760	0.5774
MUT_ci300400a_cdk_PUBCHEM	0.7863	0.5714	0.5727
MUT_ci300400a_cdk_STANDARD	0.7717	0.5433	0.5434
MUT_ci300400a_rdkit_descriptors	0.7846	0.5692	0.5692
myocardial	0.2547	0.2378	0.3669
naticusdroid	0.9687	0.9375	0.9375
nci9	0.6012	0.5962	0.6718
ncRNA10%	0.6552	0.8145	0.8185
neo	0.6742	0.1844	0.2843
new-thyroid	0.9026	0.8939	0.8985
new-thyroidT	1.0000	1.0000	1.0000
newspop	0.6622	0.3226	0.3244
NHANES_age_prediction	1.0000	1.0000	1.0000
nomao	0.9449	0.8897	0.8898
nursery	0.9339	0.9592	0.9592
obesity	0.9102	0.8948	0.8960
obs	0.9628	0.9452	0.9455
oh0-wc	0.9318	0.9206	0.9218
oh10-wc	0.7784	0.7498	0.7544
oh15-wc	0.8705	0.8510	0.8537
oh5-wc	0.8803	0.8379	0.8402
olive	0.9385	0.9343	0.9362
optdigits	0.9752	0.9703	0.9705
orlraws10P	0.8743	0.8889	0.8989
ozone1hr	0.4909	0.0000	0.0000
p53-mutants10%	0.4992	0.0000	0.0000
parkinson	0.9828	0.9655	0.9655
particle	0.9149	0.8298	0.8298
pc1	0.4813	0.0000	0.0000
pcmac	0.4956	-0.0086	0.0000
pediatric-leukemia	0.5881	0.6670	0.6814
pendigits	0.9918	0.9909	0.9909
period-10f	0.6582	0.3077	0.3162
persistence	0.7808	0.5528	0.5614
personalities	0.9740	0.9723	0.9723
pet-adoption	0.8804	0.7480	0.7604
phishing	0.9571	0.9140	0.9142
PhiUSIL10%	0.9996	0.9991	0.9991
phy	0.7062	0.4124	0.4124
Continued on next page			

Dataset	F1-macro	Kappa	MCC
pima	0.7042	0.3746	0.4063
pirvision	0.9710	0.9648	0.9648
placement	0.7768	0.5528	0.5536
plrx	0.3793	-0.1887	0.0000
polya	0.7327	0.4593	0.4651
popularity	0.4934	0.2416	0.2671
post-operative	0.7568	0.4000	0.5000
postures	0.9783	0.9733	0.9733
pred-tox_mutagen_ref-desc	0.6353	0.2647	0.2705
prestige	0.8889	0.8302	0.8462
primary-tumor	0.3259	0.3895	0.3986
processed	1.0000	1.0000	1.0000
profb	0.6327	0.2637	0.2652
promoters	0.7041	0.4000	0.4082
puc-rio	0.9920	0.9935	0.9935
pufs-1281%	0.4962	-0.0076	0.0000
pufs-6410%	0.4957	-0.0086	0.0000
pulsar	0.9356	0.8672	0.8709
raisin	0.9127	0.8222	0.8255
rejafada	1.0000	1.0000	1.0000
relathe	0.9929	0.9858	0.9859
rice	0.9719	0.9590	0.9543
rocket	0.6462	0.2924	0.2924
RT_IOT2022	0.9063	0.9929	0.9929
satimage	0.8841	0.8749	0.8757
scadi	0.6984	0.6316	0.6860
schiller	0.8000	0.5263	0.5976
sclerosis	1.0000	1.0000	1.0000
secom	0.7022	0.1722	0.3069
secondary_mushroom	1.0000	1.0000	1.0000
seeds	0.9152	0.8571	0.8660
segment	0.9689	0.9595	0.9597
segmentation	0.8522	0.7022	0.7043
segmentO	1.0000	1.0000	1.0000
seismic	0.4830	0.0000	0.0000
sens-2-gram	0.6601	0.0342	0.1320
sens-3-gram	0.6601	0.0342	0.1320
sens-4-gram	0.4648	0.0000	0.0000
sensorless	0.9990	0.9989	0.9989
shoppers	0.7861	0.5415	0.5678
sick	0.8435	0.6656	0.6842
sirtuin6	1.0000	1.0000	1.0000
smarket	0.9842	0.9680	0.9685
smk_can_187	0.5179	0.0339	0.0358
smoking	0.7680	0.5360	0.5360
soil_pollution	0.0950	-0.0496	0.0000
solar-flare	0.5427	0.6733	0.6810
sonar	0.6573	0.3000	0.3145
soybean	0.9944	0.9839	0.9841
spam-detection	0.8661	0.7315	0.7322
spambase	0.9233	0.8421	0.8466
spect	0.4444	0.0000	0.0000
spectf	0.7481	0.4948	0.4961
spectrometer	0.4568	0.5213	0.5240
squash-unstored	0.7059	0.2857	0.4082
startup	0.9885	0.9767	0.9769
steel_industry	0.8774	0.8415	0.8416
stellar	0.9701	0.9535	0.9537
Continued on next page			

Dataset	F1-macro	Kappa	MCC
stock	0.8358	0.6591	0.6705
stockb	0.9927	0.9773	0.9618
streaming	0.9816	0.9776	0.9793
stress	1.0000	1.0000	1.0000
student-depression	0.8279	0.6513	0.6557
student-habits	0.1351	-0.1188	0.0000
student-lifestyle	0.3653	0.3990	0.4169
student-weekend	0.1163	0.0240	0.0518
student-workday	0.1638	0.0190	0.0270
studentap	0.5111	0.2909	0.2909
swarm_aligned	1.0000	1.0000	1.0000
swarm_flocking	0.9996	0.9992	0.9992
swarm_grouped	1.0000	1.0000	1.0000
tae	0.6000	0.4000	0.4027
telco-churn	0.8567	0.7084	0.7131
texture	0.9830	0.9800	0.9800
theorem	0.9748	0.9494	0.9495
thoracic	0.4598	0.0000	0.0000
Thyroid_Diff	0.9365	0.8648	0.8728
tis	0.8429	0.6488	0.6834
titanic	0.7833	0.5545	0.5660
tourist	0.2894	0.4146	0.4679
trains	0.3333	0.0000	0.0000
transfusion	0.4920	-0.0141	0.0000
tuandromd	0.9746	0.9492	0.9492
turkish	0.8015	0.7333	0.7401
tvnews	0.8903	0.7781	0.7805
ur3_cobotops_grip	0.6812	0.0776	0.2009
ur3_cobotops_stop	0.5999	0.1148	0.1598
urban	0.8201	0.7719	0.7772
ustilago10%	0.4973	0.0000	0.0000
vehicle	0.7563	0.7120	0.7172
vote	0.9346	0.8608	0.8693
vowel	0.7653	0.7111	0.7167
wap-wc	0.5595	0.6960	0.7021
warpar10p	0.6055	0.6533	0.6668
warppie10p	1.0000	1.0000	1.0000
waveform	0.8245	0.7360	0.7373
weather-related	0.9815	0.9760	0.9761
weight-lift	0.9946	0.9936	0.9936
white-clover	0.3735	-0.2020	0.0000
wifi-loc	0.9950	0.9933	0.9934
wilt	0.8316	0.6626	0.6632
wine	1.0000	1.0000	1.0000
winequality-red	0.3385	0.4554	0.4594
winequality-white	0.4141	0.4335	0.4374
winnipeg10%	0.9944	0.9911	0.9911
wisc.bc	0.9443	0.8880	0.8886
yale	0.7652	0.7983	0.8051
yeast	0.4309	0.4074	0.4165
yeastCYT-POX	0.4882	0.0000	0.0000
yeastEXC	0.6366	0.2688	0.2717
yeastME1	0.7845	0.5613	0.5674
yeastME2	0.4879	0.0000	0.0000
zip	0.9497	0.9482	0.9483

Table 35: Detailed results for RF-TSMC

Dataset	F1-macro	Kappa	MCC
abalone	0.0007	0.0000	0.0000
abalone19	0.4946	-0.0008	0.0000
accelerometer	0.6348	0.0609	0.1701
ads	0.1230	0.0000	0.0000
adult	0.7292	0.3841	0.4562
advanced-iot	1.0000	1.0000	1.0000
AID_1431	0.5809	0.0705	0.1450
AID_1431_KlekotaRothFingerprinter	0.0803	0.0000	0.0000
AID_1431_MACCSFingerprinter	0.4673	-0.0336	0.0000
AID_1878	0.5315	0.0525	0.0613
AID_602330	0.5538	0.0280	0.0788
AID_652128	0.4263	0.0635	0.1141
AID1284red	0.5906	0.1397	0.1739
AID1608Morered	0.0636	0.0000	0.0000
AID1608red	0.5085	0.0048	0.0134
AID362red	0.4917	-0.0041	0.0000
AID373AID439red	0.5561	0.0001	0.0075
AID373red	0.5645	0.0118	0.0425
AID456red	0.4525	-0.0020	0.0000
AID604	0.5682	0.0055	0.0374
AID604AID644_AllRed	0.5152	0.0003	0.0040
AID687AID721red	0.6117	0.0016	0.0284
AID687red	0.4829	-0.0023	0.0000
AID688red	0.4779	-0.0025	0.0000
AID721morered	0.8784	0.7273	0.7559
AID721red	0.5950	0.1818	0.1890
AID746AID1284red	0.5965	0.0048	0.0377
AID746red	0.5605	0.0059	0.0412
aids	0.7746	0.5029	0.5476
air_pollution	0.1232	-0.0240	0.0000
alcohol	0.3366	0.2350	0.2583
all-aml	1.0000	1.0000	1.0000
anneal	0.0045	0.0000	0.0000
antivirus	0.1591	0.0000	0.0000
anuran-f-b	0.6754	0.0969	0.2256
anxiety	0.1582	0.0670	0.0739
apple-quality	0.7126	0.4250	0.4251
aps-failure	0.7475	0.3692	0.4612
arabidopsis1%	0.5359	0.0040	0.0268
arcene	0.7292	0.4231	0.4583
arrhythmia	0.0085	0.0000	0.0000
auction	0.7187	0.3343	0.4253
audiology	0.0386	0.0000	0.0000
audit-risk	0.9386	0.8697	0.8772
autism-adolescent	0.9052	0.7925	0.8101
autism-adult	0.9363	0.8645	0.8725
autism-child	1.0000	1.0000	1.0000
autos	0.7633	0.6273	0.6538
avila	0.3892	0.2863	0.2969
balance	0.6109	0.4195	0.4805
bank	0.6754	0.3436	0.3493
bankruptcy	1.0000	1.0000	1.0000
bio	0.8027	0.5877	0.6020
biodeg	0.6992	0.3940	0.3983
biomed	1.0000	1.0000	1.0000
Continued on next page			

Dataset	F1-macro	Kappa	MCC
bitcoin10%	0.1629	0.0066	0.0415
body-perf	0.5104	0.3632	0.3676
brain-tumor	0.4919	-0.0148	0.0000
breast-cancer	0.6826	0.2353	0.3651
breast-cancer-ma	0.3553	0.0000	0.0000
breast-tissue	0.7179	0.6733	0.6869
bridges	0.0302	0.0000	0.0000
bub12at310k-hg16-17	0.6850	0.3088	0.3575
cad	0.9629	0.9231	0.9258
cancer	1.0000	1.0000	1.0000
cancer-uae	0.3646	0.0390	0.0448
car-insurance	0.7457	0.4628	0.4909
cardiotocography-nsp	0.7112	0.5403	0.5617
cardiovascular	0.6319	0.1924	0.2575
cargo2k	0.6857	0.3897	0.4927
cars	0.6791	0.5614	0.5700
ccds10%	0.5009	0.0016	0.0017
cdc_diabetes	0.4295	0.1207	0.1855
census	0.6477	0.1858	0.2660
cervical-B	0.5608	0.0403	0.1047
cervical-H	0.5370	0.0100	0.0707
cervical-S	0.0851	0.0000	0.0000
children-anemia	0.3793	0.3694	0.4022
chrom19	0.6672	0.0456	0.1488
chrom211%	0.5032	0.0000	0.0000
churn	0.6592	0.2995	0.3163
cjs	0.2951	0.1322	0.1550
ckd	0.9461	0.8864	0.8921
clave	0.4602	0.3427	0.3546
cll_sub_111	0.2331	-0.1414	0.0000
cmc	0.5142	0.2871	0.2875
cnae-9	0.0222	0.0000	0.0000
codon_usage	0.5094	0.4777	0.4866
coil20	0.6790	0.5762	0.6347
college	0.8673	0.7258	0.7343
collins	0.0076	0.0000	0.0000
colon-tumor	0.7500	0.4000	0.5000
colposcopies-1	0.7108	0.4171	0.4216
colposcopies-2	0.6913	0.3741	0.3825
colposcopies-4	0.6327	0.2526	0.2647
colposcopies-5	0.6245	0.2209	0.2450
colposcopies-c	0.6729	0.3185	0.3442
column-2c	0.8565	0.6737	0.7127
column-3c	0.7920	0.6472	0.6818
connect-4	0.5908	0.3423	0.3446
coupon	0.5084	0.0017	0.0080
covtype	0.2381	0.0212	0.0279
covtypeCD	0.7386	0.3689	0.4666
covtypeT	0.6967	0.2544	0.3638
crabs	0.8062	0.7333	0.7383
creditcard_trans	0.8721	0.7424	0.7440
crowdsourced	0.5999	0.4211	0.4809
cryotherapy	0.5500	0.1000	0.1000
cultivars	0.2223	0.3232	0.3325
cybersecurity	0.1581	-0.0036	0.0000
cyclopentane	0.5500	0.1000	0.1000
cylinder-bands	0.6311	0.2593	0.2622
datatrieve	0.6895	0.2320	0.3689
Continued on next page			

Dataset	F1-macro	Kappa	MCC
dating	0.0957	-0.0009	0.0000
dbworld	0.3000	0.0000	0.0000
default	0.5846	0.1275	0.1673
dementia	0.9901	0.9800	0.9802
deposit	0.6105	0.0978	0.2119
depressed	0.5788	0.1148	0.1528
dermatology	0.2313	0.3247	0.3728
desharnais	0.3145	0.0245	0.0264
df_final	0.1333	0.0000	0.0000
DIA	0.5876	0.1579	0.1741
diabetes-100k	0.6900	0.3072	0.3651
diagnosis	1.0000	1.0000	1.0000
diamonds	1.0000	1.0000	1.0000
diamonds_all	0.4168	0.3319	0.3544
dishonest	0.8545	0.7091	0.7091
dlbcl-nih	0.4647	-0.0685	0.0000
dlbcl-stanford	0.5833	0.1667	0.1667
dna0.1%	0.4995	-0.0001	0.0000
dota2	0.5054	0.0107	0.0107
drebin	0.5638	0.0961	0.1209
dropout	0.6489	0.4934	0.5023
ecoli	0.5445	0.7624	0.7668
ecoliCP-IM	1.0000	1.0000	1.0000
ecoliM	0.8253	0.6341	0.6500
ecoliMU	0.6084	0.1418	0.1992
ecoliOM	0.7339	0.4677	0.4677
ecommerce	0.0968	0.0000	0.0000
euthyroid	0.7973	0.5945	0.5946
fakenews	0.4692	-0.0104	0.0000
fbis-wc	0.1096	0.0733	0.0781
finance	0.4388	-0.1179	0.0000
financial-risk	0.0689	0.0000	0.0000
flags	0.0478	0.0000	0.0000
forest	0.8436	0.8156	0.8160
gas	0.8011	0.7691	0.7712
gastrointestinal	0.5763	0.3333	0.3820
gender	0.4534	0.1053	0.1477
german	0.5802	0.0108	0.0737
gestures	0.3903	0.1785	0.1860
gina	0.6478	0.2805	0.2954
gisette	0.6325	0.2629	0.2650
glass	0.4981	0.4362	0.4445
glass-g2	0.8416	0.6364	0.6831
glassBWFP	0.8132	0.6147	0.6264
glassBWNFP	0.6786	0.3571	0.3571
glassContainers	0.8986	0.7755	0.7958
glassNW	1.0000	1.0000	1.0000
glassTableware	0.4888	0.0000	0.0000
GlaucomaM	0.7389	0.4751	0.4778
gli_85	0.2014	0.0000	0.0000
glioma	0.8333	0.7059	0.7500
glioma-grade	0.7993	0.5615	0.5985
green	0.5238	0.0476	0.0476
gsalc	0.9167	0.8657	0.8788
haberman	0.7927	0.5588	0.5847
hapt	0.6473	0.6932	0.6949
har	0.5530	0.4341	0.4391
harth10%	0.4324	0.5679	0.5782
Continued on next page			

Dataset	F1-macro	Kappa	MCC
health-activity	0.3222	0.1187	0.1497
heart	0.7666	0.5263	0.5330
heart-c	0.9000	0.7982	0.8000
heart-failure	0.8219	0.6263	0.6435
heart-quantum	0.9423	0.8780	0.8847
hepatitis	0.7266	0.4444	0.4523
higher	0.1509	0.0671	0.0735
hinselmann	0.2308	-0.4000	0.0000
hitters	0.8168	0.5725	0.6333
hiv1-proteasa	0.4535	0.0000	0.0000
hiva	0.5094	0.0002	0.0093
horse	0.6399	0.3987	0.4402
hotel-reservartions	0.6857	0.3093	0.3712
hr	0.5412	0.0269	0.0823
ht-sensor	0.6374	0.4498	0.4586
htru2	0.9068	0.8133	0.8137
hypothyroid	0.2408	0.0000	0.0000
immuno-therapy	0.8000	0.5263	0.5976
ionosphere	0.8990	0.7961	0.7980
iris	0.9333	0.8993	0.9054
irish	0.8255	0.6218	0.6506
isolet	0.5293	0.5074	0.5082
jm1	0.5904	0.1732	0.1797
jvowels	0.8058	0.7884	0.7900
kc1-class-level-numericdefect	0.0289	0.0000	0.0000
kc1-class-level-top5percentDF	0.4617	-0.0714	0.0000
kc2	0.8221	0.6155	0.6428
kdc-4007	0.0341	0.0000	0.0000
kddcup991%	0.0249	0.0000	0.0000
kidney	0.1872	-0.0055	0.0000
kidney-disease	1.0000	1.0000	1.0000
la2s-wc	0.0321	0.0000	0.0000
labor	0.7500	0.4000	0.5000
leaf	0.2668	0.4769	0.4857
led24	0.5500	0.4915	0.5015
lenses	1.0000	0.9907	1.0000
letter	0.7123	0.6915	0.6925
linkage1%	1.0000	1.0000	1.0000
loan	0.9507	0.9010	0.9014
lrs	0.4153	0.7423	0.7502
lung_discrete	0.0000	-0.1019	0.0000
lymphography	0.0450	0.0000	0.0000
lymphoma2	0.2878	0.2480	0.3838
machine-failure	0.9369	0.8705	0.8737
magic04	0.7413	0.4368	0.4790
malware	0.1591	0.0000	0.0000
mammography	0.7929	0.5773	0.5857
marketing	0.5981	0.1221	0.1888
mba	0.4535	0.1666	0.2204
mental-disorders	0.7273	0.5556	0.6019
messidor	0.5560	0.1088	0.1121
meter-A	0.6522	0.1579	0.2928
meter-B	1.0000	1.0000	1.0000
meter-C	0.9330	0.9241	0.9280
meter-D	0.9583	0.9234	0.9274
mfeat-fac	0.8845	0.8667	0.8678
mfeat-fou	0.6314	0.5889	0.5901
mfeat-kar	0.8566	0.8333	0.8351
Continued on next page			

Dataset	F1-macro	Kappa	MCC
mfeat-mor	0.6423	0.6278	0.6371
mfeat-pix	0.8622	0.8389	0.8399
mfeat-zer	0.6433	0.6056	0.6079
mice-prot	0.9467	0.9364	0.9366
milk	0.9181	0.8686	0.8702
mines	0.4990	0.4100	0.4211
mobile	0.7800	0.7650	0.7657
monks-1	0.6988	0.3391	0.3953
monks-3	0.7854	0.5709	0.5709
mushroom	0.8834	0.7441	0.7667
music	0.0136	0.0000	0.0000
MUT_ci300400a_cdk_ECFP2	0.3682	0.0000	0.0000
MUT_ci300400a_cdk_ECFP4	0.3684	0.0000	0.0000
MUT_ci300400a_cdk_ECFP6	0.5257	0.0464	0.0514
MUT_ci300400a_cdk_ESTATE	0.5144	0.0052	0.0156
MUT_ci300400a_cdk_EXTENDED	0.3682	0.0000	0.0000
MUT_ci300400a_cdk_FCFP2	0.3684	0.0000	0.0000
MUT_ci300400a_cdk_FCFP4	0.3682	0.0000	0.0000
MUT_ci300400a_cdk_FCFP6	0.3682	0.0000	0.0000
MUT_ci300400a_cdk_MACCS	0.5741	0.1371	0.1473
MUT_ci300400a_cdk_PUBCHEM	0.6219	0.2437	0.2438
MUT_ci300400a_cdk_STANDARD	0.5707	0.1413	0.1414
MUT_ci300400a_rdkit_descriptors	0.5958	0.1708	0.1898
myocardial	0.2588	0.0131	0.0422
naticusdroid	0.8586	0.7108	0.7172
nci9	0.0480	0.0000	0.0000
ncRNA10%	0.4174	0.3385	0.4120
neo	0.7424	0.3705	0.4684
new-thyroid	1.0000	1.0000	1.0000
new-thyroidT	1.0000	1.0000	1.0000
newspop	0.5175	0.0348	0.0350
NHANES_age_prediction	0.9835	0.9670	0.9670
nomao	0.7923	0.5468	0.5838
nursery	0.6012	0.4553	0.4976
obesity	0.5928	0.4700	0.5012
obs	0.8577	0.7580	0.7601
oh0-wc	0.0113	0.0000	0.0000
oh10-wc	0.0943	0.0204	0.0217
oh15-wc	0.0121	0.0000	0.0000
oh5-wc	0.1722	0.0457	0.0484
olive	0.9174	0.9123	0.9157
optdigits	0.7797	0.7391	0.7431
orlraws10P	0.0498	0.0000	0.0000
ozone1hr	0.6943	0.1965	0.3300
p53-mutants10%	0.6284	0.0125	0.0792
parkinson	0.9656	0.9306	0.9311
particle	0.8069	0.5973	0.6134
pc1	0.5910	0.1321	0.1668
pcmac	0.3681	0.0000	0.0000
pediatric-leukemia	0.0158	0.0000	0.0000
pendigits	0.9134	0.9008	0.9015
period-10f	0.3415	-0.2857	0.0000
persistence	0.7057	0.4109	0.4114
personalities	0.6370	0.6087	0.6095
pet-adoption	0.6354	0.1438	0.2650
phishing	0.9128	0.8136	0.8254
PhiUSIL10%	0.9957	0.9913	0.9913
phy	0.6005	0.1483	0.1960
Continued on next page			

Dataset	F1-macro	Kappa	MCC
pima	0.7330	0.4612	0.4659
pirvision	0.8597	0.7990	0.8056
placement	0.7775	0.5550	0.5550
plrx	0.4375	-0.1111	0.0000
polya	0.6447	0.2756	0.2892
popularity	0.4035	0.0845	0.0907
post-operative	0.7568	0.4000	0.5000
postures	0.6960	0.6207	0.6220
pred-tox_mutagen_ref-desc	0.6847	0.3529	0.3693
prestige	0.8889	0.8302	0.8462
primary-tumor	0.0234	0.0000	0.0000
processed	0.8740	0.7281	0.7479
profb	0.6476	0.2629	0.2907
promoters	0.7674	0.4444	0.5345
puc-rio	0.8365	0.8445	0.8446
pufs-1281%	0.5058	0.0089	0.0113
pufs-6410%	0.4992	-0.0015	0.0000
pulsar	0.9153	0.8288	0.8304
raisin	0.8629	0.7111	0.7258
rejafada	0.6925	0.1914	0.3253
relathe	0.9929	0.9858	0.9859
rice	0.9861	0.9722	0.9723
rocket	0.5533	0.0805	0.1017
RT_IOT2022	0.4979	0.6392	0.6557
satimage	0.8104	0.7847	0.7856
scadi	0.1197	0.0000	0.0000
schiller	0.5950	0.1818	0.1890
sclerosis	1.0000	1.0000	1.0000
secom	0.5107	0.0132	0.0182
secondary_mushroom	0.5276	0.0450	0.0538
seeds	0.9152	0.8571	0.8660
segment	0.9140	0.8886	0.8897
segmentation	0.7881	0.5682	0.5760
segmentO	0.9472	0.8888	0.8943
seismic	0.6260	0.1133	0.2178
sens-2-gram	0.5761	0.1403	0.1494
sens-3-gram	0.5606	0.0850	0.1145
sens-4-gram	0.5357	0.0379	0.0674
sensorless	0.7891	0.7635	0.7653
shoppers	0.7055	0.3487	0.4042
sick	0.6690	0.2119	0.3074
sirtuin6	1.0000	1.0000	1.0000
smarket	0.9921	0.9840	0.9841
smk_can_187	0.6910	0.3736	0.3820
smoking	0.7136	0.4056	0.4271
soil_pollution	0.1970	0.0173	0.0222
solar-flare	0.2692	0.1357	0.1627
sonar	0.5503	0.1000	0.1005
soybean	0.0015	0.0000	0.0000
spam-detection	0.7040	0.2846	0.3872
spambase	0.8183	0.6314	0.6365
spect	0.7091	0.2373	0.3669
spectf	0.7807	0.5505	0.5610
spectrometer	0.3742	0.4860	0.5007
squash-unstored	1.0000	1.0000	1.0000
startup	0.9363	0.8646	0.8727
steel_industry	0.6845	0.5414	0.5581
stellar	0.7697	0.6239	0.6400
Continued on next page			

Dataset	F1-macro	Kappa	MCC
stock	0.6787	0.3151	0.3530
stockb	0.9745	0.9603	0.9614
streaming	0.7726	0.5448	0.5451
stress	1.0000	1.0000	1.0000
student-depression	0.6934	0.2972	0.3850
student-habits	0.1607	0.0041	0.0050
student-lifestyle	0.4252	0.2013	0.2211
student-weekend	0.1926	0.0389	0.0458
student-workday	0.1770	-0.0131	0.0000
studentap	0.2544	-0.0317	0.0000
swarm_aligned	0.9550	0.9088	0.9101
swarm_flocking	0.9256	0.8510	0.8512
swarm_grouped	0.9451	0.8851	0.8903
tae	0.4101	0.1000	0.1050
telco-churn	0.6110	0.2036	0.2184
texture	0.9008	0.8857	0.8861
theorem	0.6212	0.2328	0.2425
thoracic	0.1296	0.0000	0.0000
Thyroid_Diff	0.7725	0.4571	0.5443
tis	0.1984	0.0000	0.0000
titanic	0.7833	0.5545	0.5660
tourist	0.0442	0.0000	0.0000
trains	0.3314	0.0000	0.0000
transfusion	0.5907	0.1525	0.1798
tuandromd	0.6714	0.2136	0.3407
turkish	0.7021	0.6000	0.6051
tvnews	0.6982	0.3635	0.3963
ur3_cobotops_grip	0.6167	0.0909	0.1769
ur3_cobotops_stop	0.6447	0.1260	0.2321
urban	0.7637	0.7237	0.7269
ustilago10%	0.5069	0.0130	0.0134
vehicle	0.6907	0.6290	0.6452
vote	0.9535	0.9069	0.9069
vowel	0.5446	0.4444	0.4528
wap-wc	0.4854	0.6633	0.6801
warpar10p	0.5647	0.5724	0.5920
warppie10p	1.0000	1.0000	1.0000
waveform	0.7883	0.6703	0.6818
weather-related	0.1602	0.1964	0.2175
weight-lift	0.4754	0.3231	0.3446
white-clover	0.6604	0.1818	0.3162
wifi-loc	0.9852	0.9800	0.9802
wilt	0.7185	0.2731	0.3977
wine	1.0000	1.0000	1.0000
winequality-red	0.3398	0.1928	0.2014
winequality-white	0.2897	0.1493	0.1586
winnipeg10%	0.9194	0.9072	0.9074
wisc.bc	0.9813	0.9619	0.9626
yale	0.1660	0.1996	0.2130
yeast	0.4705	0.2562	0.2909
yeastCYT-POX	0.6395	0.0918	0.2193
yeastEXC	0.7717	0.4201	0.5156
yeastME1	0.7807	0.4478	0.5371
yeastME2	0.6883	0.2942	0.3543
zip	0.7908	0.7772	0.7776

Table 36: Detailed results for RF

Dataset	F1-macro	Kappa	MCC
abalone	0.0918	0.0577	0.0590
abalone19	0.4915	-0.0114	0.0000
accelerometer	0.6503	0.2903	0.2971
ads	0.9413	0.8785	0.8824
adult	0.7967	0.5699	0.5924
advanced-iot	1.0000	1.0000	1.0000
AID_1431	0.4728	-0.0276	0.0000
AID_1431_KlekotaRothFingerprinter	0.4247	-0.1317	0.0000
AID_1431_MACCSFingerprinter	0.4569	-0.0853	0.0000
AID_1878	0.6165	0.2300	0.2323
AID_602330	0.4853	-0.0233	0.0000
AID_652128	0.3040	-0.0435	0.0000
AID1284red	0.6259	0.2500	0.2514
AID1608Morered	0.5794	0.1518	0.1564
AID1608red	0.5569	0.0869	0.1039
AID362red	0.4703	-0.0251	0.0000
AID456red	0.4898	-0.0056	0.0000
AID687AID721red	0.5932	0.0100	0.0488
AID687red	0.5156	0.0082	0.0165
AID688red	0.4995	-0.0006	0.0000
AID721morered	1.0000	1.0000	1.0000
AID721red	0.8784	0.7273	0.7559
aids	0.8547	0.7093	0.7094
air_pollution	0.1669	0.0212	0.0254
alcohol	0.5410	0.5988	0.6007
all-aml	1.0000	1.0000	1.0000
anneal	0.8184	0.7593	0.7837
antivirus	1.0000	1.0000	1.0000
anuran-f-b	0.9082	0.7980	0.8148
anxiety	0.0593	-0.0612	0.0000
apple-quality	0.8377	0.6750	0.6754
arabidopsis1%	0.4980	0.0000	0.0000
arcene	0.7292	0.4231	0.4583
arrhythmia	0.6499	0.5773	0.5805
auction	0.8163	0.5903	0.6287
audiology	0.5735	0.6987	0.7096
audit-risk	0.9619	0.9210	0.9239
autism-adolescent	0.9141	0.8136	0.8281
autism-adult	1.0000	1.0000	1.0000
autism-child	1.0000	1.0000	1.0000
autos	0.7496	0.6743	0.6809
avila	0.9013	0.9612	0.9615
balance	0.5923	0.5140	0.5371
bank	0.7798	0.5222	0.5548
bankruptcy	0.9606	0.9180	0.9211
biodeg	0.8695	0.7388	0.7389
biomed	1.0000	1.0000	1.0000
body-perf	0.7404	0.6527	0.6543
brain-tumor	0.4975	-0.0050	0.0000
breast-cancer	0.6506	0.2921	0.3006
breast-cancer-ma	0.7800	0.4762	0.5590
breast-tissue	0.7179	0.6733	0.6869
bridges	0.6222	0.7143	0.7247
cad	1.0000	1.0000	1.0000
cancer	0.9844	0.9684	0.9688
Continued on next page			

Dataset	F1-macro	Kappa	MCC
cancer-uae	0.3035	-0.0599	0.0000
car-insurance	0.8081	0.6092	0.6161
cardiotocography-nsp	0.8215	0.7331	0.7403
cardiovascular	0.7368	0.4704	0.4735
cargo2k	1.0000	1.0000	1.0000
cars	0.7207	0.6154	0.6352
ccds10%	0.5427	0.0481	0.0660
cervical-B	0.7353	0.3929	0.4555
cervical-H	0.7327	0.3112	0.4293
cervical-S	0.7029	0.3813	0.4010
children-anemia	0.8657	0.8988	0.9002
chrom211%	0.4998	0.0000	0.0000
churn	0.7233	0.4454	0.4465
cjs	0.9905	0.9869	0.9870
ckd	1.0000	1.0000	1.0000
clave	0.6722	0.6796	0.6803
cll_sub_111	0.5804	0.2653	0.3061
cmc	0.5907	0.3920	0.3937
cnae-9	0.9327	0.9167	0.9183
codon_usage	0.7502	0.8956	0.8958
coil20	1.0000	1.0000	1.0000
college	0.9018	0.8036	0.8036
collins	0.6790	0.7132	0.7179
colon-tumor	0.7500	0.4000	0.5000
colposcopies-1	0.6821	0.3591	0.3638
colposcopies-2	0.5643	0.1163	0.1270
colposcopies-4	0.6667	0.3165	0.3310
colposcopies-5	0.5167	0.0333	0.0333
colposcopies-c	0.5722	0.1420	0.1442
column-2c	0.8210	0.6404	0.6420
column-3c	0.8145	0.7391	0.7481
coupon	0.7044	0.4088	0.4089
covtypeCD	0.9265	0.8436	0.8526
covtypeT	0.8457	0.6559	0.6875
crabs	0.8541	0.8000	0.8027
crowdsourced	0.8614	0.8856	0.8858
cryotherapy	0.7404	0.3721	0.4781
cultivars	0.4038	0.4194	0.4232
cybersecurity	0.1914	0.0296	0.0298
cyclopentane	0.5843	0.1681	0.1686
cylinder-bands	0.7221	0.4414	0.4442
datatrieve	0.3500	-0.1471	0.0000
dating	0.1072	0.0080	0.0080
dbworld	1.0000	1.0000	1.0000
default	0.7065	0.4129	0.4131
dementia	1.0000	1.0000	1.0000
deposit	0.7778	0.5200	0.5512
depressed	0.5080	0.0159	0.0160
dermatology	0.9429	0.9325	0.9325
desharnais	0.7549	0.3043	0.4709
df_final	0.4532	0.2471	0.2515
DIA	0.6927	0.3810	0.3849
diagnosis	1.0000	1.0000	1.0000
diamonds	1.0000	1.0000	1.0000
diamonds_all	0.7399	0.6565	0.6608
dishonest	1.0000	1.0000	1.0000
dlbcl-nih	0.4647	-0.0685	0.0000
dlbcl-stanford	0.2857	0.0000	0.0000

Continued on next page

Dataset	F1-macro	Kappa	MCC
dna0.1%	0.4989	-0.0019	0.0000
drebin	0.9676	0.9350	0.9352
dropout	0.7002	0.6036	0.6055
ecoli	0.6954	0.7942	0.7982
ecoliCP-IM	1.0000	1.0000	1.0000
ecoliM	0.8012	0.5769	0.6013
ecoliMU	0.6810	0.3125	0.3516
ecoliOM	0.6296	0.2180	0.2469
ecommerce	0.2534	0.0009	0.0009
euthyroid	0.8386	0.6644	0.6759
fakenews	0.5102	0.0203	0.0203
fbis-wc	0.8406	0.8299	0.8309
finance	0.7079	0.4129	0.4158
financial-risk	0.6866	0.8085	0.8097
flags	0.3761	0.4444	0.4557
forest	0.8906	0.8669	0.8710
gas	0.9950	0.9939	0.9939
gastrointestinal	0.5769	0.5429	0.6171
gender	0.4539	0.1483	0.1483
german	0.6848	0.3679	0.3695
gestures	0.9221	0.8961	0.8962
gina	0.9544	0.9078	0.9088
gisette	0.9686	0.9371	0.9373
glass	0.6787	0.6159	0.6313
glass-g2	0.7115	0.3939	0.4229
glassBWFP	0.8538	0.7042	0.7077
glassBWNFP	0.8063	0.6000	0.6124
glassContainers	0.6688	0.3265	0.3351
glassNW	1.0000	1.0000	1.0000
glassTableware	0.7215	0.2787	0.4024
GlaucomaM	0.7978	0.5824	0.5955
gli.85	0.8730	0.7143	0.7454
glioma	0.8333	0.7059	0.7500
glioma-grade	0.8790	0.7571	0.7580
green	0.4553	-0.0870	0.0000
gsalc	0.8333	0.7353	0.7576
haberman	0.6067	0.2105	0.2132
hapt	0.8336	0.9438	0.9439
har	0.9916	0.9903	0.9903
health-activity	0.3663	0.0984	0.1213
heart	0.8466	0.6932	0.6932
heart-c	0.9364	0.8649	0.8729
heart-failure	0.9744	0.9487	0.9488
heart-quantum	0.8674	0.7200	0.7348
hepatitis	0.8544	0.6667	0.7071
higher	0.1500	0.0059	0.0061
hinselmann	0.4118	-0.1538	0.0000
hitters	0.9373	0.8745	0.8745
hiv1-proteasa	0.8199	0.6263	0.6388
hiva	0.5818	0.1518	0.1591
horse	0.6866	0.5213	0.5245
hotel-reservartions	0.8766	0.7519	0.7532
hr	0.5005	0.0011	0.0011
htru2	0.9112	0.8209	0.8223
hypothyroid	0.6607	0.7498	0.7717
immuno-therapy	0.8000	0.5263	0.5976
ionosphere	0.8767	0.7473	0.7533
iris	0.9333	0.8993	0.9054
Continued on next page			

Dataset	F1-macro	Kappa	MCC
irish	0.9802	0.9596	0.9604
isolet	0.9078	0.8999	0.9002
jm1	0.6418	0.2828	0.2835
javowels	0.9662	0.9647	0.9648
kc1-class-level-numericdefect	0.3101	0.2935	0.3007
kc1-class-level-top5percentDF	0.4000	-0.1194	0.0000
kc2	0.6716	0.3272	0.3417
kdc-4007	0.7987	0.7613	0.7619
kddcup991%	0.7386	0.9962	0.9962
kidney	0.1778	0.0000	0.0000
kidney-disease	0.9743	0.9474	0.9487
la2s-wc	0.8749	0.8629	0.8638
labor	0.8537	0.6667	0.7071
leaf	0.6166	0.6294	0.6364
led24	0.7802	0.7143	0.7205
lenses	0.5714	0.5000	0.6124
letter	0.9461	0.9433	0.9434
linkage1%	0.6689	0.0587	0.1738
loan	0.9825	0.9650	0.9651
lrs	0.5927	0.7181	0.7223
lung_discrete	0.7652	0.8367	0.8549
lymphography	0.4675	0.3578	0.3612
lymphoma2	0.6027	0.6842	0.7120
machine-failure	0.9251	0.8483	0.8501
magic04	0.8506	0.7010	0.7011
malware	0.9599	0.9165	0.9197
mammography	0.8535	0.7064	0.7070
marketing	0.7440	0.4832	0.4873
mba	0.4853	0.3434	0.3826
mental-disorders	0.8537	0.7778	0.7926
messidor	0.6617	0.3210	0.3234
meter-A	0.7500	0.3846	0.4879
meter-B	0.7528	0.5179	0.5929
meter-C	0.9583	0.9234	0.9274
meter-D	0.9583	0.9234	0.9274
mfeat-fac	0.9510	0.9444	0.9447
mfeat-fou	0.7889	0.7667	0.7678
mfeat-kar	0.9709	0.9667	0.9668
mfeat-mor	0.6829	0.6444	0.6453
mfeat-pix	0.9811	0.9778	0.9780
mfeat-zer	0.7854	0.7667	0.7676
mice-prot	0.9914	0.9894	0.9895
milk	1.0000	1.0000	1.0000
mines	0.6472	0.5589	0.5644
mobile	0.9605	0.9573	0.9574
monks-1	0.8786	0.7445	0.7572
monks-3	0.9285	0.8570	0.8570
mushroom	1.0000	1.0000	1.0000
music	0.5307	0.4084	0.4106
MUT_ci300400a_cdk_ECFP2	0.7714	0.5375	0.5429
MUT_ci300400a_cdk_ECFP4	0.7998	0.5961	0.5996
MUT_ci300400a_cdk_ECFP6	0.7470	0.4923	0.4939
MUT_ci300400a_cdk_ESTATE	0.7268	0.4478	0.4535
MUT_ci300400a_cdk_EXTENDED	0.7979	0.5928	0.5959
MUT_ci300400a_cdk_FCFP2	0.7601	0.5185	0.5201
MUT_ci300400a_cdk_FCFP4	0.7798	0.5554	0.5595
MUT_ci300400a_cdk_FCFP6	0.7673	0.5320	0.5346
MUT_ci300400a_cdk_MACCS	0.7948	0.5882	0.5897
Continued on next page			

Dataset	F1-macro	Kappa	MCC
MUT_ci300400a_cdk_PUBCHEM	0.8054	0.6077	0.6108
MUT_ci300400a_cdk_STANDARD	0.7881	0.5734	0.5761
MUT_ci300400a_rdkit_descriptors	0.7948	0.5864	0.5897
myocardial	0.3056	0.4819	0.4975
naticusdroid	0.9660	0.9319	0.9320
nci9	0.6061	0.6000	0.6708
neo	0.7323	0.4049	0.4548
new-thyroid	1.0000	1.0000	1.0000
new-thyroidT	0.8056	0.6111	0.6111
newspop	0.6603	0.3206	0.3207
NHANES_age_prediction	0.9919	0.9837	0.9838
nomao	0.9450	0.8884	0.8899
nursery	0.9411	0.9595	0.9600
obesity	0.9234	0.9059	0.9079
obs	0.9334	0.9061	0.9091
oh0-wc	0.9168	0.9098	0.9109
oh10-wc	0.8145	0.7853	0.7883
oh15-wc	0.8998	0.8769	0.8778
oh5-wc	0.8909	0.8636	0.8642
olive	0.9086	0.8919	0.8932
optdigits	0.9678	0.9624	0.9625
orlraws10P	1.0000	1.0000	1.0000
ozone1hr	0.5492	0.0969	0.0977
p53-mutants10%	0.4992	0.0000	0.0000
parkinson	0.9741	0.9481	0.9482
pc1	0.5794	0.1344	0.1508
pcmac	0.5149	0.0297	0.0298
pediatric-leukemia	0.7154	0.7113	0.7128
pendigits	0.9899	0.9889	0.9889
period-10f	0.4208	-0.1538	0.0000
persistence	0.8083	0.6151	0.6165
pet-adoption	0.9002	0.7996	0.8003
phishing	0.9493	0.8980	0.8985
PhiUSIIL10%	0.9991	0.9983	0.9983
pima	0.6939	0.3871	0.3877
pirvision	0.9595	0.9347	0.9364
placement	0.7641	0.5275	0.5282
plrx	0.5282	0.0526	0.0555
polya	0.7569	0.5124	0.5138
popularity	0.4673	0.2928	0.2971
post-operative	0.3077	-0.3636	0.0000
pred-tox_mutagen_ref-desc	0.6324	0.2647	0.2648
prestige	0.8192	0.6727	0.7115
primary-tumor	0.3132	0.2986	0.3054
profb	0.6007	0.1899	0.2012
promoters	0.6784	0.3478	0.3563
pulsar	0.9174	0.8341	0.8347
raisin	0.8476	0.6889	0.6951
rejafada	0.7708	0.4200	0.5156
relathe	0.9929	0.9858	0.9859
rice	0.9861	0.9722	0.9723
rocket	0.6737	0.3448	0.3473
satimage	0.8814	0.8733	0.8737
scadi	0.6600	0.6316	0.6667
schiller	0.4375	0.0000	0.0000
sclerosis	1.0000	1.0000	1.0000
secom	0.4817	-0.0118	0.0000
seeds	0.9553	0.9286	0.9317
Continued on next page			

Dataset	F1-macro	Kappa	MCC
segment	0.9656	0.9544	0.9550
segmentation	0.8298	0.6504	0.6594
segmentO	0.9168	0.8194	0.8331
seismic	0.5948	0.1738	0.1844
sens-2-gram	0.6199	0.2192	0.2337
sens-3-gram	0.6615	0.2373	0.2958
sens-4-gram	0.6527	0.2585	0.2918
shoppers	0.8055	0.6084	0.6108
sick	0.7755	0.5007	0.5426
sirtuin6	1.0000	1.0000	1.0000
smarket	1.0000	1.0000	1.0000
smk_can_187	0.6292	0.2570	0.2584
smoking	0.7318	0.4688	0.4586
soil-pollution	0.1690	-0.0386	0.0000
solar-flare	0.6476	0.6475	0.6507
sonar	0.6021	0.2000	0.2041
soybean	0.9809	0.9678	0.9688
spam-detection	0.8693	0.7260	0.7376
spambase	0.9431	0.8862	0.8863
spect	0.6034	0.1818	0.2041
spectf	0.7807	0.5505	0.5610
spectrometer	0.4988	0.6209	0.6254
squash-unstored	1.0000	1.0000	1.0000
startup	0.9885	0.9767	0.9769
steel_industry	0.8890	0.8559	0.8563
stellar	0.9751	0.9414	0.9404
stock	0.8452	0.6903	0.6905
stockb	0.9912	0.9868	0.9868
streaming	0.9919	0.9838	0.9838
stress	0.9846	0.9802	0.9805
student-depression	0.8284	0.6568	0.6569
student-habits	0.2451	0.0048	0.0049
student-lifestyle	0.4209	0.3793	0.3828
student-weekend	0.3663	0.1997	0.2063
student-workday	0.1993	0.1075	0.1094
studentap	0.4804	0.1727	0.1743
swarm_aligned	0.9990	0.9981	0.9981
swarm_flocking	0.9992	0.9983	0.9983
swarm_grouped	1.0000	1.0000	1.0000
tae	0.5944	0.4000	0.4027
telco-churn	0.8719	0.7437	0.7438
texture	0.9796	0.9759	0.9760
theorem	0.9770	0.9532	0.9540
thoracic	0.5843	0.1572	0.1662
Thyroid_Diff	0.8721	0.7441	0.7441
tis	0.8769	0.7514	0.7537
titanic	0.6952	0.3896	0.3904
tourist	0.2894	0.4146	0.4679
trains	0.3333	0.0000	0.0000
transfusion	0.5578	0.1071	0.1147
tuandromd	0.9501	0.8966	0.9002
turkish	0.7928	0.7333	0.7352
ur3_cobotops_grip	0.6679	0.3081	0.3275
ur3_cobotops_stop	0.7223	0.4042	0.4346
urban	0.8640	0.8257	0.8274
vehicle	0.6810	0.6443	0.6476
vote	0.9089	0.8143	0.8178
vowel	0.7063	0.6667	0.6724
Continued on next page			

Dataset	F1-macro	Kappa	MCC
wap-wc	0.6956	0.8216	0.8234
warpar10p	0.7151	0.7383	0.7537
warppie10p	1.0000	1.0000	1.0000
waveform	0.8481	0.7720	0.7722
weather-related	0.9766	0.9717	0.9718
weight-lift	0.9992	0.9990	0.9990
white-clover	0.6604	0.1818	0.3162
wifi-loc	0.9900	0.9867	0.9867
wilt	0.8347	0.6333	0.6645
wine	1.0000	1.0000	1.0000
winequality-red	0.2813	0.3140	0.3164
winequality-white	0.4159	0.4038	0.4067
winnipeg10%	0.9910	0.9915	0.9915
wisc.bc	0.9817	0.9627	0.9633
yale	0.6600	0.6667	0.6809
yeast	0.4667	0.4884	0.4917
yeastCYT-POX	0.7658	0.4068	0.5053
yeastEXC	0.6125	0.1440	0.1929
yeastME1	0.7157	0.3486	0.4084
yeastME2	0.6722	0.3019	0.3325
zip	0.9375	0.9362	0.9362

Table 37: Detailed results for RFERNS

Dataset	F1-macro	Kappa	MCC
abalone	0.0017	0.0034	0.0051
abalone19	0.4810	-0.0025	0.0000
accelerometer	0.6499	0.0801	0.1994
ads	0.5768	0.0528	0.1535
adult	0.4328	0.0000	0.0000
advanced-iot	0.6657	0.5288	0.5570
AID_1431	0.4946	-0.0040	0.0000
AID_1431_KlekotaRothFingerprinter	0.4140	-0.1399	0.0000
AID_1431_MACCSFingerprinter	0.5604	0.0549	0.1069
AID_1878	0.5627	0.0666	0.1244
AID_602330	0.4823	-0.0109	0.0000
AID_652128	0.3236	-0.0351	0.0000
AID1284red	0.1220	0.0000	0.0000
AID1608Morered	0.5965	0.1660	0.1826
AID1608red	0.6051	0.1550	0.1923
AID362red	0.4437	-0.0078	0.0000
AID373AID439red	0.0002	0.0000	0.0000
AID373red	0.4838	-0.0003	0.0000
AID456red	0.0030	0.0000	0.0000
AID604	0.4857	-0.0006	0.0000
AID604AID644_AllRed	0.5120	0.0001	0.0071
AID687AID721red	0.5079	0.0001	0.0016
AID687red	0.5217	0.0006	0.0169
AID688red	0.5159	0.0013	0.0167
AID721morered	0.1818	0.0000	0.0000
AID721red	0.4044	-0.1250	0.0000
AID746AID1284red	0.5937	0.0017	0.0291
AID746red	0.5203	0.0027	0.0132
aids	0.6039	0.2029	0.2073
air_pollution	0.0762	0.0029	0.0036
alcohol	0.2934	0.1388	0.1545
all-aml	0.7500	0.4000	0.5000
anneal	0.0044	0.0000	0.0000
antivirus	0.9095	0.8021	0.8183
anuran-f-b	0.6734	0.0918	0.2194
anxiety	0.0426	-0.0514	0.0000
apple-quality	0.6107	0.2200	0.2213
aps-failure	0.6668	0.1489	0.2590
arabidopsis1%	0.5027	0.0005	0.0020
arcene	0.6561	0.2593	0.3118
arrhythmia	0.0241	0.0067	0.0112
auction	0.6259	0.1429	0.2404
audiology	0.0891	0.1008	0.1703
audit-risk	0.9275	0.8445	0.8549
autism-adolescent	0.5345	0.0678	0.0690
autism-adult	0.7767	0.5518	0.5533
autism-child	0.7986	0.5246	0.5963
autos	0.1830	0.1228	0.1689
avila	0.1851	0.1647	0.1852
balance	0.4334	0.3030	0.3054
bank	0.6189	0.2348	0.2371
bankruptcy	0.7796	0.5312	0.5593
bio	0.6310	0.0478	0.1405
biodeg	0.6734	0.2941	0.3467
biomed	0.8077	0.5494	0.6154
Continued on next page			

Dataset	F1-macro	Kappa	MCC
bitcoin10%	0.0000	0.0000	0.0000
body-perf	0.3156	0.1244	0.1431
brain-tumor	0.4751	-0.0453	0.0000
breast-cancer	0.5913	0.1176	0.1826
breast-cancer-ma	0.4777	-0.0312	0.0000
breast-tissue	0.5696	0.5686	0.6393
bridges	0.1282	0.1111	0.1844
bub12at310k-hg16-17	0.6270	0.1635	0.2342
cad	0.6189	0.1975	0.2376
cancer	0.9696	0.9373	0.9392
cancer-uae	0.3162	-0.0129	0.0000
car-insurance	0.6825	0.3514	0.3647
cardiotocography-nsp	0.6069	0.2712	0.3774
cardiovascular	0.6034	0.1993	0.2068
cargo2k	0.5248	0.2042	0.2573
cars	0.5882	0.3976	0.4349
ccds10%	0.5333	0.0120	0.0501
cdc_diabetes	0.3551	0.0420	0.0530
census	0.5049	0.0018	0.0095
cervical-B	0.5471	0.0385	0.0786
cervical-H	0.5467	0.0250	0.0706
cervical-S	0.4756	0.0000	0.0000
children-anemia	0.2377	0.0257	0.0329
chrom19	0.6487	0.0144	0.0815
chrom211%	0.2572	-0.0016	0.0000
churn	0.5881	0.1364	0.1735
cjs	0.0426	0.0000	0.0000
ckd	0.7122	0.3043	0.4237
clave	0.4029	0.2882	0.2988
cll_sub_111	0.4050	0.0847	0.2273
cmc	0.4759	0.2103	0.2174
cnae-9	0.0222	0.0000	0.0000
codon_usage	0.2171	0.1446	0.1678
coil20	0.2153	0.2766	0.2906
college	0.8056	0.6039	0.6110
collins	0.0408	0.0733	0.1176
colon-tumor	0.6250	0.2500	0.2500
colposcopies-1	0.5601	0.1129	0.1202
colposcopies-2	0.4711	-0.0423	0.0000
colposcopies-4	0.6848	0.1714	0.3062
colposcopies-5	0.6245	0.2209	0.2450
colposcopies-c	0.5904	0.1288	0.1645
column-2c	0.5617	0.1040	0.1234
column-3c	0.6034	0.4142	0.4271
connect-4	0.4546	0.1723	0.2682
coupon	0.3625	0.0000	0.0000
covtype	0.0148	0.0033	0.0075
covtypeCD	0.5313	0.0081	0.0533
covtypeT	0.6390	0.1173	0.2449
crabs	0.7957	0.6667	0.7027
creditcard_trans	0.5888	0.0032	0.0354
crowdsourced	0.3037	0.0931	0.1300
cryotherapy	0.3077	0.0000	0.0000
cultivars	0.1772	0.1935	0.2220
cybersecurity	0.0724	-0.0068	0.0000
cyclopentane	0.5166	0.0331	0.0331
cylinder-bands	0.2987	0.0000	0.0000
datatrieve	0.3810	-0.1404	0.0000
Continued on next page			

Dataset	F1-macro	Kappa	MCC
dating	0.0179	0.0000	0.0000
dbworld	0.3000	-0.2727	0.0000
default	0.6040	0.1806	0.2057
dementia	0.4943	-0.0111	0.0000
deposit	0.5183	0.0155	0.0347
depressed	0.5616	0.1137	0.1212
dermatology	0.2646	0.2253	0.3080
desharnais	0.3077	0.1111	0.2100
df_final	0.1333	0.0000	0.0000
DIA	0.4309	-0.1077	0.0000
diabetes-100k	0.4778	0.0000	0.0000
diagnosis	1.0000	1.0000	1.0000
diamonds	0.6509	0.5562	0.5685
diamonds_all	0.1872	0.0866	0.0988
dishonest	0.6169	0.2308	0.2336
dlbcl-nih	0.3798	-0.2329	0.0000
dlbcl-stanford	0.4167	-0.1538	0.0000
dna0.1%	0.4845	-0.0054	0.0000
dota2	0.5210	0.0309	0.0402
drebin	0.6370	0.2722	0.2739
dropout	0.5332	0.2597	0.2782
ecoli	0.0741	0.0242	0.0480
ecoliCP-IM	1.0000	1.0000	1.0000
ecoliM	0.6468	0.1586	0.2935
ecoliMU	0.5970	0.1200	0.1765
ecoliOM	0.7339	0.4677	0.4677
ecommerce	0.1593	-0.0226	0.0000
euthyroid	0.5436	0.0146	0.0857
fakenews	0.5643	0.1095	0.1275
fbis-wc	0.0042	0.0000	0.0000
finance	0.5558	0.1081	0.1115
financial-risk	0.1406	0.0139	0.0277
flags	0.0373	0.0000	0.0000
forest	0.4975	0.2849	0.2926
gas	0.7645	0.7195	0.7232
gastrointestinal	0.3632	0.1837	0.2614
gender	0.4154	0.1081	0.1230
german	0.5780	0.0575	0.1391
gestures	0.3459	0.1195	0.1261
gina	0.6186	0.2219	0.2368
gisette	0.3333	0.0000	0.0000
glass	0.5752	0.3039	0.3396
glass-g2	0.6789	0.3548	0.3578
glassBWFP	0.6415	0.2632	0.2831
glassBWNFP	0.7427	0.4828	0.4854
glassContainers	0.6031	0.0723	0.1936
glassNW	0.8183	0.6316	0.6364
glassTableware	0.3333	-0.0901	0.0000
GlaucomaM	0.7449	0.4633	0.4893
gli_85	0.5749	0.1429	0.1491
glioma	0.2222	0.0625	0.0884
glioma-grade	0.7385	0.4609	0.4771
green	0.4762	-0.0345	0.0000
gsalc	0.5286	0.4545	0.5222
haberman	0.4797	-0.0345	0.0000
hapt	0.2967	0.3654	0.4146
har	0.3282	0.1589	0.1614
harth10%	0.2020	0.2016	0.2349
Continued on next page			

Dataset	F1-macro	Kappa	MCC
health-activity	0.0884	0.0000	0.0000
heart	0.7264	0.4392	0.4524
heart-c	0.7681	0.5249	0.5361
heart-failure	0.7061	0.3843	0.4116
heart-quantum	0.8565	0.6957	0.7127
hepatitis	0.6779	0.3333	0.3536
higher	0.0588	0.0000	0.0000
hinselmann	0.7059	0.2857	0.4082
hitters	0.3469	0.0000	0.0000
hiv1-proteasa	0.1455	0.0000	0.0000
hiva	0.0342	0.0000	0.0000
horse	0.5945	0.3226	0.3261
hotel-reservartions	0.4020	0.0000	0.0000
hr	0.1204	0.0000	0.0000
ht-sensor	0.8147	0.7179	0.7199
htru2	0.8140	0.5925	0.6238
hypothyroid	0.0300	0.0031	0.0104
immuno-therapy	0.4044	-0.1250	0.0000
ionosphere	0.8108	0.5570	0.6213
iris	0.7642	0.5745	0.6407
irish	0.7633	0.4327	0.5254
isolet	0.3437	0.3205	0.3227
jm1	0.6518	0.2774	0.3007
jvowels	0.6975	0.6265	0.6372
kc1-class-level-numericdefect	0.0364	0.0000	0.0000
kc1-class-level-top5percentDF	0.6250	0.0909	0.2182
kc2	0.7923	0.5055	0.5816
kdc-4007	0.0345	0.0000	0.0000
kddcup991%	0.1787	0.6372	0.6760
kidney	0.0651	0.0005	0.0010
kidney-disease	0.8460	0.6883	0.6921
la2s-wc	0.0465	0.0000	0.0000
labor	0.6250	0.2500	0.2500
leaf	0.5965	0.5960	0.6222
led24	0.4255	0.3820	0.3908
lenses	0.5714	0.5000	0.6124
letter	0.5850	0.5658	0.5662
linkage1%	0.5362	0.0048	0.0218
loan	0.5635	0.0878	0.1256
lrs	0.3136	0.2713	0.2811
lung_discrete	0.3733	0.2453	0.2837
lymphography	0.0444	0.0000	0.0000
lymphoma2	0.2456	0.1250	0.1837
machine-failure	0.8900	0.7792	0.7800
magic04	0.7587	0.5164	0.5174
malware	0.9554	0.9068	0.9108
mammography	0.7137	0.3000	0.4201
marketing	0.5292	0.0256	0.0576
mba	0.3758	0.0545	0.0664
mental-disorders	0.5000	0.3333	0.3397
messidor	0.6683	0.3205	0.3367
meter-A	0.5333	0.0588	0.0667
meter-B	0.7435	0.5179	0.5929
meter-C	0.7430	0.5680	0.6094
meter-D	0.8622	0.7682	0.7716
mfeat-fac	0.6096	0.5000	0.5193
mfeat-fou	0.3076	0.2222	0.2248
mfeat-kar	0.4246	0.3333	0.3370
Continued on next page			

Dataset	F1-macro	Kappa	MCC
mfeat-mor	0.6813	0.6444	0.6464
mfeat-pix	0.3856	0.3333	0.3396
mfeat-zer	0.4459	0.3833	0.3849
mice-prot	0.5583	0.4435	0.4575
milk	0.8271	0.6944	0.7265
mines	0.4275	0.3348	0.3408
mobile	0.2484	0.2089	0.2141
monks-1	0.7064	0.3771	0.4120
monks-3	0.6651	0.3249	0.3301
mushroom	0.7591	0.4272	0.5147
music	0.1510	0.1131	0.1272
MUT_ci300400a_cdk_ECFP2	0.2944	0.0000	0.0000
MUT_ci300400a_cdk_ECFP4	0.2942	0.0000	0.0000
MUT_ci300400a_cdk_ECFP6	0.2948	0.0000	0.0000
MUT_ci300400a_cdk_ESTATE	0.2944	0.0000	0.0000
MUT_ci300400a_cdk_EXTENDED	0.3682	0.0000	0.0000
MUT_ci300400a_cdk_FCFP2	0.2942	0.0000	0.0000
MUT_ci300400a_cdk_FCFP4	0.2944	0.0000	0.0000
MUT_ci300400a_cdk_FCFP6	0.3682	0.0000	0.0000
MUT_ci300400a_cdk_MACCS	0.3682	0.0000	0.0000
MUT_ci300400a_cdk_PUBCHEM	0.3684	0.0000	0.0000
MUT_ci300400a_cdk_STANDARD	0.3684	0.0000	0.0000
MUT_ci300400a_rdkit_descriptors	0.5790	0.1567	0.1580
myocardial	0.0100	-0.0056	0.0000
naticusdroid	0.3328	0.0000	0.0000
nci9	0.2667	0.2000	0.2336
ncRNA10%	0.2311	0.2398	0.2990
neo	0.6670	0.2397	0.3161
new-thyroid	0.7621	0.4787	0.5734
new-thyroidT	0.7407	0.3636	0.4714
newspop	0.5517	0.0966	0.1030
NHANES_age_prediction	0.6281	0.1553	0.2498
nomao	0.8202	0.6399	0.6403
nursery	0.2307	0.1794	0.2482
obesity	0.1017	0.0265	0.0314
obs	0.8018	0.6628	0.6833
oh0-wc	0.0112	0.0000	0.0000
oh10-wc	0.0205	0.0000	0.0000
oh15-wc	0.0103	0.0000	0.0000
oh5-wc	0.0124	0.0000	0.0000
olive	0.6116	0.5476	0.5796
optdigits	0.3326	0.2503	0.2585
orlraws10P	0.4253	0.4444	0.5113
ozone1hr	0.5547	0.0158	0.0893
p53-mutants10%	0.3539	-0.0064	0.0000
parkinson	0.6581	0.3125	0.3161
particle	0.7278	0.4250	0.4546
pc1	0.7237	0.2992	0.4194
pcmac	0.3681	0.0000	0.0000
pediatric-leukemia	0.1280	0.0520	0.0731
pendigits	0.8579	0.8268	0.8299
period-10f	0.6311	0.1176	0.2500
persistence	0.6303	0.2566	0.2605
personalities	0.1078	0.0545	0.0614
pet-adoption	0.6186	0.1868	0.2372
phishing	0.8430	0.6774	0.6859
PhiUSIL10%	0.3637	0.0000	0.0000
phy	0.6220	0.1437	0.2289
Continued on next page			

Dataset	F1-macro	Kappa	MCC
pima	0.5986	0.1915	0.1968
pirvision	0.4240	0.2493	0.2738
placement	0.6442	0.2603	0.2883
plrx	0.6346	0.2603	0.2686
polya	0.6017	0.1832	0.2033
popularity	0.3792	0.0450	0.0614
post-operative	0.2500	-0.4000	0.0000
postures	0.6696	0.5817	0.5833
pred-tox_mutagen_ref-desc	0.6041	0.2059	0.2081
prestige	0.6655	0.4906	0.5000
primary-tumor	0.0401	0.0619	0.0817
processed	0.5741	0.1357	0.1480
profb	0.2472	0.0000	0.0000
promoters	0.6250	0.2308	0.2500
puc-rio	0.8022	0.8019	0.8025
pufs-1281%	0.5072	0.0144	0.0144
pufs-6410%	0.4982	-0.0037	0.0000
pulsar	0.7427	0.3907	0.4706
raisin	0.8175	0.6222	0.6351
rejafada	0.0340	0.0000	0.0000
relathe	0.9858	0.9716	0.9716
rice	0.9749	0.9487	0.9497
rocket	0.6213	0.1413	0.2340
RT_IOT2022	0.1217	0.1737	0.2013
satimage	0.6620	0.6320	0.6347
scadi	0.0000	-0.1667	0.0000
schiller	0.5970	0.0690	0.1890
sclerosis	0.7744	0.5424	0.5488
secom	0.5610	0.0338	0.1059
secondary_mushroom	0.5550	0.0640	0.1036
seeds	0.9152	0.8571	0.8690
segment	0.7153	0.6505	0.6543
segmentation	0.6960	0.3920	0.3921
segmentO	0.8640	0.6901	0.7258
seismic	0.6427	0.1900	0.2596
sens-2-gram	0.5152	0.0185	0.0283
sens-3-gram	0.5627	0.1237	0.1249
sens-4-gram	0.5299	0.0268	0.0575
sensorless	0.4470	0.3874	0.3886
shoppers	0.1335	0.0000	0.0000
sick	0.6377	0.1345	0.2408
sirtuin6	0.3333	0.0000	0.0000
smarket	0.6035	0.2032	0.2070
smk_can_187	0.6841	0.3596	0.3680
smoking	0.6658	0.3177	0.3316
soil_pollution	0.1625	-0.0307	0.0000
solar-flare	0.0745	0.0000	0.0000
sonar	0.6508	0.3000	0.3015
soybean	0.0239	0.0303	0.0643
spam-detection	0.6821	0.2671	0.3457
spambase	0.5989	0.1793	0.1979
spect	0.6897	0.3636	0.3780
spectf	0.6293	0.2500	0.2582
spectrometer	0.1271	0.1740	0.2052
squash-unstored	0.8333	0.6154	0.6667
startup	0.4090	-0.1421	0.0000
steel_industry	0.6611	0.4978	0.5212
stellar	0.6417	0.3143	0.4028
Continued on next page			

Dataset	F1-macro	Kappa	MCC
stock	0.5728	0.1294	0.1431
stockb	0.7018	0.5642	0.5817
streaming	0.4833	-0.0299	0.0000
stress	0.6261	0.6010	0.6273
student-depression	0.7071	0.4031	0.4139
student-habits	0.1087	0.0278	0.0396
student-lifestyle	0.0537	0.0274	0.0522
student-weekend	0.1223	-0.0514	0.0000
student-workday	0.0333	-0.0110	0.0000
studentap	0.3899	0.0370	0.0398
swarm_aligned	0.6657	0.2327	0.3313
swarm_flocking	0.8201	0.6187	0.6401
swarm_grouped	0.8235	0.6008	0.6452
tae	0.5696	0.3000	0.3472
telco-churn	0.6945	0.3210	0.3878
texture	0.6895	0.6240	0.6274
theorem	0.7221	0.4404	0.4442
thoracic	0.4964	-0.0071	0.0000
Thyroid_Diff	0.4154	0.0000	0.0000
tis	0.4294	0.0000	0.0000
titanic	0.7833	0.5545	0.5660
tourist	0.0444	0.0000	0.0000
trains	0.3333	0.0000	0.0000
transfusion	0.5578	0.1071	0.1147
tuandromd	0.1679	0.0000	0.0000
turkish	0.3943	0.2000	0.2523
tvnews	0.5926	0.1734	0.1839
ur3_cobotops_grip	0.5770	0.0377	0.1064
ur3_cobotops_stop	0.6365	0.1486	0.2288
urban	0.4703	0.4601	0.4856
ustilago10%	0.5082	0.0009	0.0072
vehicle	0.5129	0.3721	0.3756
vote	0.9307	0.8605	0.8615
vowel	0.3140	0.1778	0.1892
wap-wc	0.0079	0.0028	0.0063
warpar10p	0.1071	0.0654	0.0727
warppie10p	0.3901	0.3588	0.3704
waveform	0.6426	0.4630	0.4652
weather-related	0.0102	0.0000	0.0000
weight-lift	0.2674	0.1295	0.1367
white-clover	0.2500	0.0000	0.0000
wifi-loc	0.9421	0.9200	0.9218
wilt	0.5821	0.1075	0.1435
wine	0.8833	0.7927	0.7927
winequality-red	0.1539	0.0631	0.1244
winequality-white	0.0193	-0.0003	0.0000
winnipeg10%	0.5930	0.5599	0.5734
wisc.bc	0.8440	0.6767	0.6879
yale	0.2366	0.2636	0.2766
yeast	0.0052	-0.0048	0.0000
yeastCYT-POX	0.0392	0.0000	0.0000
yeastEXC	0.0263	0.0000	0.0000
yeastME1	0.5958	0.0333	0.1300
yeastME2	0.6319	0.1128	0.2161
zip	0.6558	0.6207	0.6237

Table 38: Detailed results for RotationForest

Dataset	F1-macro	Kappa	MCC
abalone	0.0993	0.0592	0.0605
abalone19	0.4921	-0.0112	0.0000
accelerometer	0.6446	0.2753	0.2844
ads	0.9241	0.8483	0.8483
advanced-iot	1.0000	1.0000	1.0000
AID_1431	0.4750	-0.0148	0.0000
AID_1431_KlekotaRothFingerprinter	0.4112	-0.1416	0.0000
AID_1431_MACCSFingerprinter	0.4522	-0.0957	0.0000
AID_1878	0.5827	0.1545	0.1623
AID_602330	0.4825	-0.0331	0.0000
AID_652128	0.3040	-0.0394	0.0000
AID1284red	0.6049	0.2044	0.2086
AID1608Morered	0.5267	0.0526	0.0531
AID1608red	0.5569	0.0869	0.1039
AID362red	0.4716	-0.0250	0.0000
AID456red	0.4900	-0.0056	0.0000
AID721morered	1.0000	1.0000	1.0000
AID721red	0.8000	0.5263	0.5976
aids	0.8381	0.6756	0.6762
air_pollution	0.1666	0.0214	0.0245
alcohol	0.6554	0.6468	0.6507
all-aml	1.0000	1.0000	1.0000
anneal	0.8141	0.7428	0.7706
antivirus	1.0000	1.0000	1.0000
anuran-f-b	0.9626	0.9224	0.9252
anxiety	0.0833	-0.0317	0.0000
apple-quality	0.8404	0.6800	0.6809
arcene	0.7292	0.4231	0.4583
arrhythmia	0.6407	0.5779	0.5815
auction	0.8430	0.6472	0.6830
audiology	0.5039	0.6469	0.6557
audit-risk	0.9619	0.9210	0.9239
autism-adolescent	0.9141	0.8136	0.8281
autism-adult	1.0000	1.0000	1.0000
autism-child	1.0000	1.0000	1.0000
autos	0.8062	0.7333	0.7437
avila	0.8943	0.9545	0.9549
balance	0.5840	0.4935	0.5189
bankruptcy	1.0000	1.0000	1.0000
biodeg	0.8896	0.7789	0.7791
biomed	0.9529	0.9014	0.9058
body-perf	0.7286	0.6368	0.6383
brain-tumor	0.5065	0.0129	0.0129
breast-cancer	0.5227	0.0421	0.0453
breast-cancer-ma	0.7333	0.4590	0.4667
breast-tissue	0.5969	0.5600	0.5657
bridges	0.4403	0.4595	0.4724
cad	0.9629	0.9231	0.9258
cancer	1.0000	1.0000	1.0000
cancer-uae	0.3061	-0.0651	0.0000
car-insurance	0.8059	0.6048	0.6117
cardiotocography-nsp	0.8213	0.7214	0.7285
cardiovascular	0.7308	0.4665	0.4768
cargo2k	1.0000	1.0000	1.0000
cars	0.6418	0.5633	0.5696
Continued on next page			

Dataset	F1-macro	Kappa	MCC
cervical-B	0.7353	0.3929	0.4555
cervical-H	0.7327	0.3112	0.4293
cervical-S	0.7029	0.3813	0.4010
children-anemia	0.8564	0.8975	0.8991
chrom211%	0.4998	0.0000	0.0000
churn	0.7302	0.4592	0.4603
cjs	0.9905	0.9869	0.9870
ckd	1.0000	1.0000	1.0000
clave	0.6763	0.6779	0.6790
cll_sub_111	0.8028	0.6000	0.6068
cmc	0.5860	0.3793	0.3807
cnae-9	0.9221	0.9062	0.9074
codon_usage	0.7488	0.8965	0.8967
coil20	1.0000	1.0000	1.0000
college	0.9018	0.8036	0.8036
collins	0.7249	0.7353	0.7416
colon-tumor	0.6604	0.1818	0.3162
colposcopies-1	0.6947	0.3895	0.3895
colposcopies-2	0.6954	0.3696	0.3894
colposcopies-4	0.5685	0.1369	0.1369
colposcopies-5	0.5736	0.1386	0.1447
colposcopies-c	0.5499	0.0963	0.0994
column-2c	0.8210	0.6404	0.6420
column-3c	0.7609	0.6847	0.6896
coupon	0.7142	0.4285	0.4285
covtypeCD	0.9253	0.8415	0.8503
covtypeT	0.8473	0.6588	0.6906
crabs	0.8062	0.7333	0.7383
crowdsourced	0.8578	0.8785	0.8788
cryotherapy	0.7404	0.3721	0.4781
cultivars	0.4038	0.4194	0.4232
cybersecurity	0.1964	0.0370	0.0370
cyclopentane	0.6582	0.3077	0.3162
cylinder-bands	0.7010	0.4008	0.4020
datatrieve	0.3500	-0.1471	0.0000
dbworld	1.0000	1.0000	1.0000
default	0.7217	0.3858	0.4202
dementia	1.0000	1.0000	1.0000
depressed	0.4671	-0.0649	0.0000
dermatology	0.9429	0.9325	0.9325
desharnais	0.5465	0.1667	0.2226
df_final	0.6061	0.3488	0.3941
DIA	0.6927	0.3810	0.3849
diagnosis	1.0000	1.0000	1.0000
diamonds	1.0000	1.0000	1.0000
diamonds_all	0.7717	0.6806	0.6922
dishonest	1.0000	1.0000	1.0000
dlbcl-nih	0.4505	-0.0986	0.0000
dlbcl-stanford	0.8333	0.6154	0.6667
drebin	0.9711	0.9421	0.9423
dropout	0.6953	0.5988	0.6006
ecoli	0.6419	0.7545	0.7573
ecoliCP-IM	1.0000	1.0000	1.0000
ecoliM	0.8012	0.5769	0.6013
ecoliMU	0.6630	0.2667	0.3130
ecoliOM	0.6127	0.1750	0.2095
ecommerce	0.2684	0.0294	0.0299
euthyroid	0.8434	0.6757	0.6857
Continued on next page			

Dataset	F1-macro	Kappa	MCC
fakenews	0.5076	0.0152	0.0153
fbis-wc	0.8341	0.8301	0.8310
finance	0.7079	0.4129	0.4158
financial-risk	0.6820	0.8235	0.8246
flags	0.3761	0.4444	0.4557
forest	0.9069	0.8937	0.8983
gas	0.9959	0.9948	0.9948
gastrointestinal	0.6179	0.6643	0.7206
gender	0.4646	0.1754	0.1756
german	0.6584	0.3135	0.3165
gestures	0.9197	0.8927	0.8929
gina	0.9514	0.9021	0.9028
gisette	0.9601	0.9200	0.9201
glass	0.7115	0.6087	0.6283
glass-g2	0.8667	0.7333	0.7333
glassBWFP	0.8990	0.7981	0.7981
glassBWNFP	0.7698	0.5161	0.5394
glassContainers	0.6688	0.3265	0.3351
glassNW	1.0000	1.0000	1.0000
glassTableware	0.7215	0.2787	0.4024
GlaucomaM	0.7389	0.4751	0.4778
gli_85	0.6667	0.3333	0.3333
glioma	0.8333	0.7059	0.7500
glioma-grade	0.8660	0.7317	0.7319
green	0.4553	-0.0870	0.0000
gsalc	0.8333	0.7353	0.7576
haberman	0.6932	0.3602	0.3854
hapt	0.8710	0.9492	0.9493
har	0.9927	0.9916	0.9916
health-activity	0.3749	0.1386	0.1713
heart	0.7666	0.5263	0.5330
heart-c	0.9364	0.8649	0.8729
heart-failure	0.9744	0.9485	0.9487
heart-quantum	0.9083	0.8000	0.8165
hepatitis	0.8544	0.6667	0.7071
higher	0.0833	-0.0898	0.0000
hinselmann	0.4444	0.0000	0.0000
hitters	0.9373	0.8745	0.8745
hiv1-proteasa	0.8307	0.6455	0.6603
hiva	0.5568	0.1061	0.1106
horse	0.6748	0.4803	0.4830
hotel-reservartions	0.8556	0.7144	0.7125
hr	0.5263	0.0521	0.0524
htru2	0.9118	0.8218	0.8235
hypothyroid	0.6542	0.7401	0.7637
immuno-therapy	0.8000	0.5263	0.5976
ionosphere	0.8767	0.7473	0.7533
iris	0.9333	0.8993	0.9054
irish	0.9802	0.9596	0.9604
isolet	0.8995	0.8905	0.8909
jm1	0.6403	0.2797	0.2805
fvowels	0.9677	0.9659	0.9659
kc1-class-level-numericdefect	0.2974	0.2262	0.2318
kc1-class-level-top5percentDF	0.4231	-0.1111	0.0000
kc2	0.6589	0.2986	0.3160
kdc-4007	0.7937	0.7555	0.7560
kidney	0.1778	0.0000	0.0000
kidney-disease	0.9743	0.9474	0.9487
Continued on next page			

Dataset	F1-macro	Kappa	MCC
la2s-wc	0.8696	0.8547	0.8556
labor	0.8537	0.6667	0.7071
leaf	0.7274	0.7221	0.7280
led24	0.6705	0.6011	0.6046
lenses	0.5714	0.5000	0.6124
letter	0.9457	0.9433	0.9434
linkage1%	0.8777	0.7154	0.7334
loan	0.9875	0.9750	0.9751
lrs	0.6412	0.7192	0.7220
lung_discrete	1.0000	1.0000	1.0000
lymphography	0.7307	0.5172	0.5320
lymphoma2	0.6027	0.6842	0.7120
machine-failure	0.9251	0.8483	0.8501
magic04	0.8452	0.6903	0.6903
malware	1.0000	1.0000	1.0000
mammography	0.8536	0.7072	0.7072
marketing	0.7651	0.5263	0.5297
mba	0.4788	0.3271	0.3699
mental-disorders	0.9270	0.8889	0.8972
messidor	0.7025	0.4040	0.4050
meter-A	0.7500	0.3846	0.4879
meter-B	0.7528	0.5179	0.5929
meter-C	0.9330	0.9241	0.9280
meter-D	0.9583	0.9234	0.9274
mfeat-fac	0.9515	0.9444	0.9448
mfeat-fou	0.8099	0.7889	0.7893
mfeat-kar	0.9760	0.9722	0.9724
mfeat-mor	0.6871	0.6500	0.6506
mfeat-pix	0.9811	0.9778	0.9780
mfeat-zer	0.7659	0.7389	0.7400
mice-prot	0.9791	0.9788	0.9792
milk	1.0000	1.0000	1.0000
mines	0.6472	0.5589	0.5644
mobile	0.9578	0.9537	0.9539
monks-1	0.8700	0.7074	0.7398
monks-3	0.9467	0.8929	0.8934
mushroom	1.0000	1.0000	1.0000
music	0.5391	0.4180	0.4202
MUT_ci300400a_cdk_ECFP2	0.7690	0.5327	0.5380
MUT_ci300400a_cdk_ECFP4	0.7956	0.5870	0.5912
MUT_ci300400a_cdk_ECFP6	0.7670	0.5327	0.5339
MUT_ci300400a_cdk_ESTATE	0.7298	0.4543	0.4596
MUT_ci300400a_cdk_EXTENDED	0.8024	0.6008	0.6048
MUT_ci300400a_cdk_FCFP2	0.7738	0.5447	0.5475
MUT_ci300400a_cdk_FCFP4	0.7732	0.5428	0.5463
MUT_ci300400a_cdk_FCFP6	0.7784	0.5540	0.5569
MUT_ci300400a_cdk_MACCS	0.7905	0.5791	0.5810
MUT_ci300400a_cdk_PUBCHEM	0.8145	0.6275	0.6291
MUT_ci300400a_cdk_STANDARD	0.7921	0.5821	0.5841
MUT_ci300400a_rdkit_descriptors	0.7926	0.5816	0.5852
myocardial	0.3104	0.4968	0.5172
naticusdroid	0.9667	0.9333	0.9334
nci9	0.7895	0.8000	0.8281
neo	0.6808	0.1897	0.2914
new-thyroid	0.9462	0.9000	0.9056
new-thyroidT	0.8662	0.6957	0.7303
NHANES_age_prediction	0.9919	0.9837	0.9838
nursery	0.9345	0.9551	0.9557
Continued on next page			

Dataset	F1-macro	Kappa	MCC
obesity	0.9300	0.9170	0.9178
obs	0.9364	0.9057	0.9076
oh0-wc	0.9197	0.9099	0.9110
oh10-wc	0.7968	0.7745	0.7769
oh15-wc	0.8966	0.8770	0.8784
oh5-wc	0.8938	0.8635	0.8642
olive	0.9385	0.9343	0.9362
optdigits	0.9717	0.9664	0.9665
orlraws10P	1.0000	1.0000	1.0000
ozone1hr	0.4805	-0.0389	0.0000
p53-mutants10%	0.4992	0.0000	0.0000
parkinson	0.9828	0.9655	0.9655
pc1	0.5794	0.1344	0.1508
pcmac	0.4895	-0.0209	0.0000
pediatric-leukemia	0.7154	0.7113	0.7128
pendigits	0.9891	0.9879	0.9879
period-10f	0.5000	0.0000	0.0000
persistency	0.8109	0.6207	0.6218
pet-adoption	0.8855	0.7688	0.7711
phishing	0.9335	0.8650	0.8670
pima	0.7330	0.4612	0.4659
pirvision	0.9581	0.9328	0.9346
placement	0.7741	0.5476	0.5482
plrx	0.5282	0.0526	0.0555
polya	0.7457	0.4897	0.4914
post-operative	0.3077	-0.3636	0.0000
pred-tox_mutagen_ref-desc	0.7062	0.4118	0.4125
prestige	0.8889	0.8302	0.8462
primary-tumor	0.3134	0.3000	0.3081
profb	0.5582	0.1143	0.1164
promoters	1.0000	1.0000	1.0000
pulsar	0.9232	0.8462	0.8465
raisin	0.8563	0.7111	0.7127
rejafada	0.7525	0.3642	0.4719
relathe	0.9858	0.9716	0.9716
rice	0.9850	0.9700	0.9700
rocket	0.6781	0.3528	0.3562
satimage	0.8900	0.8811	0.8814
scadi	0.6600	0.6316	0.6667
schiller	0.8333	0.6087	0.6614
sclerosis	1.0000	1.0000	1.0000
secom	0.4834	0.0000	0.0000
seeds	0.9553	0.9286	0.9317
segment	0.9647	0.9544	0.9547
segmentation	0.8195	0.6348	0.6390
segmentO	0.9060	0.7937	0.8112
seismic	0.5828	0.1450	0.1588
sens-2-gram	0.5773	0.1204	0.1417
sens-3-gram	0.6598	0.1982	0.2764
sens-4-gram	0.6471	0.2788	0.2902
shoppers	0.8055	0.6084	0.6108
sick	0.7878	0.5209	0.5669
sirtuin6	1.0000	1.0000	1.0000
smarket	0.9921	0.9840	0.9841
smk.can_187	0.5225	0.0447	0.0449
smoking	0.7406	0.4581	0.4711
soil_pollution	0.1838	-0.0218	0.0000
solar-flare	0.6432	0.6482	0.6525
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Dataset	F1-macro	Kappa	MCC
sonar	0.6021	0.2000	0.2041
soybean	0.9809	0.9678	0.9688
spam-detection	0.8736	0.7351	0.7463
spambase	0.9478	0.8955	0.8956
spect	0.7059	0.3636	0.4082
spectf	0.6947	0.3883	0.3892
spectrometer	0.5210	0.6610	0.6663
squash-unstored	0.8333	0.6154	0.6667
startup	0.9885	0.9767	0.9769
steel_industry	0.8914	0.8591	0.8593
stellar	0.9713	0.9433	0.9653
stock	0.8553	0.7097	0.7105
stockb	0.9912	0.9868	0.9868
streaming	0.9899	0.9798	0.9798
stress	0.9846	0.9802	0.9805
student-habits	0.2459	0.0096	0.0097
student-lifestyle	0.4091	0.3897	0.3940
student-weekend	0.3793	0.2025	0.2067
student-workday	0.2063	0.1481	0.1509
studentap	0.4804	0.1727	0.1743
swarm_aligned	0.9981	0.9961	0.9961
swarm_flocking	0.9988	0.9975	0.9975
tae	0.5944	0.4000	0.4027
telco-churn	0.8726	0.7451	0.7451
texture	0.9812	0.9779	0.9780
theorem	0.9818	0.9632	0.9636
thoracic	0.5971	0.1850	0.1922
Thyroid_Diff	0.8721	0.7441	0.7441
tis	0.8757	0.7485	0.7513
titanic	0.6952	0.3896	0.3904
tourist	0.2894	0.4146	0.4679
trains	0.3333	0.0000	0.0000
transfusion	0.5416	0.0786	0.0826
tuandromd	0.9631	0.9235	0.9262
turkish	0.8242	0.7667	0.7673
ur3_cobotops_grip	0.6797	0.3266	0.3499
ur3_cobotops_stop	0.7475	0.4613	0.4875
urban	0.8927	0.8601	0.8622
vehicle	0.7017	0.6617	0.6652
vote	0.9307	0.8605	0.8615
vowel	0.6922	0.6444	0.6497
wap-wc	0.6767	0.8000	0.8011
warpar10p	0.7151	0.7383	0.7537
warppie10p	1.0000	1.0000	1.0000
waveform	0.8541	0.7810	0.7812
weather-related	0.9751	0.9695	0.9696
weight-lift	0.9992	0.9990	0.9990
white-clover	0.7500	0.4000	0.5000
wifi-loc	0.9900	0.9867	0.9867
wilt	0.8432	0.6553	0.6824
wine	1.0000	1.0000	1.0000
winequality-red	0.3876	0.3250	0.3273
winequality-white	0.4129	0.4095	0.4128
wisc.bc	0.9817	0.9627	0.9633
yale	0.6600	0.6667	0.6809
yeast	0.3778	0.4567	0.4589
yeastCYT-POX	0.7658	0.4068	0.5053
yeastEXC	0.6196	0.1638	0.2103

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Dataset	F1-macro	Kappa	MCC
yeastME1	0.7080	0.3250	0.3899
yeastME2	0.6523	0.2924	0.3009
zip	0.9388	0.9374	0.9374

Table 39: Detailed results for RRF

Dataset	F1-macro	Kappa	MCC
abalone	0.0953	0.0370	0.0374
abalone19	0.4982	0.0000	0.0000
accelerometer	0.7182	0.3735	0.4177
ads	0.4623	0.0000	0.0000
adult	0.4328	0.0000	0.0000
advanced-iot	0.9993	0.9992	0.9992
AID_1431	0.4728	-0.0276	0.0000
AID_1431_KlekotaRothFingerprinter	0.4772	0.0000	0.0000
AID_1431_MACCSFingerprinter	0.4772	0.0000	0.0000
AID_1878	0.5761	0.1288	0.1448
AID_602330	0.4880	-0.0093	0.0000
AID_652128	0.3118	0.0000	0.0000
AID1284red	0.4462	-0.0862	0.0000
AID1608Morered	0.4718	-0.0520	0.0000
AID1608red	0.4772	-0.0404	0.0000
AID362red	0.4965	0.0000	0.0000
AID373AID439red	0.0002	0.0000	0.0000
AID373red	0.0010	0.0000	0.0000
AID456red	0.4992	0.0000	0.0000
AID604	0.0035	0.0000	0.0000
AID604AID644_AllRed	0.4997	0.0000	0.0000
AID687AID721red	0.4998	0.0000	0.0000
AID687red	0.0030	0.0000	0.0000
AID688red	0.4977	0.0000	0.0000
AID721morered	0.4375	0.0000	0.0000
AID721red	0.4375	0.0000	0.0000
AID746AID1284red	0.0010	0.0000	0.0000
AID746red	0.0060	0.0000	0.0000
aids	0.8328	0.6574	0.6650
air_pollution	0.0828	0.0017	0.0144
alcohol	0.6470	0.7580	0.7702
all-aml	1.0000	1.0000	1.0000
anneal	0.9765	0.9538	0.9551
antivirus	1.0000	1.0000	1.0000
anuran-f-b	1.0000	1.0000	1.0000
anxiety	0.0780	-0.0325	0.0000
apple-quality	0.8803	0.7600	0.7606
aps-failure	0.4955	0.0000	0.0000
arabidopsis1%	0.0079	0.0000	0.0000
arcene	0.7354	0.4681	0.4708
arrhythmia	0.4714	0.6851	0.6884
auction	0.9889	0.9776	0.9778
audiology	0.7640	0.8398	0.8439
audit-risk	1.0000	1.0000	1.0000
autism-adolescent	0.2667	0.0000	0.0000
autism-adult	0.4215	0.0000	0.0000
autism-child	1.0000	1.0000	1.0000
autos	0.7554	0.8667	0.8758
avila	0.9913	0.9919	0.9919
balance	0.5946	0.6682	0.6725
bank	0.4702	0.0000	0.0000
bankruptcy	1.0000	1.0000	1.0000
bio	0.4978	0.0000	0.0000
biodeg	0.8990	0.7981	0.7981
biomed	1.0000	1.0000	1.0000
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Dataset	F1-macro	Kappa	MCC
bitcoin10%	0.0006	0.0000	0.0000
body-perf	0.7484	0.6617	0.6638
brain-tumor	0.4855	-0.0289	0.0000
breast-cancer	0.6500	0.3000	0.3000
breast-cancer-ma	0.3529	0.0000	0.0000
breast-tissue	0.7179	0.6733	0.6869
bridges	0.6636	0.7297	0.7404
bub12at310k-hg16-17	0.4762	0.0000	0.0000
cad	1.0000	1.0000	1.0000
cancer	1.0000	1.0000	1.0000
cancer-uae	0.3120	-0.0104	0.0000
car-insurance	0.8300	0.6599	0.6599
cardiotocography-nsp	0.9003	0.8689	0.8699
cardiovascular	0.7117	0.4234	0.4234
cargo2k	1.0000	1.0000	1.0000
cars	0.8298	0.7765	0.7830
ccds10%	0.0370	0.0000	0.0000
cdc_diabetes	0.3048	0.0000	0.0000
census	0.4835	0.0000	0.0000
cervical-B	0.9104	0.8208	0.8208
cervical-H	0.6302	0.2561	0.2589
cervical-S	0.8481	0.6446	0.6896
children-anemia	0.9407	0.9172	0.9178
chrom19	0.4998	0.0000	0.0000
chrom211%	0.4998	0.0000	0.0000
churn	0.7457	0.4771	0.4895
cjs	0.0426	0.0000	0.0000
ckd	0.3939	0.0000	0.0000
clave	0.6744	0.7228	0.7230
cll_sub_111	0.6369	0.3023	0.3061
cmc	0.5258	0.3082	0.3091
cnae-9	0.0222	0.0000	0.0000
codon_usage	0.7697	0.8951	0.8956
coil20	1.0000	1.0000	1.0000
college	0.9345	0.8690	0.8690
collins	1.0000	1.0000	1.0000
colon-tumor	0.5000	0.0000	0.0000
colposcopies-1	0.8055	0.6092	0.6110
colposcopies-2	0.6059	0.1808	0.2076
colposcopies-4	0.6667	0.3165	0.3310
colposcopies-5	0.4200	-0.1485	0.0000
colposcopies-c	0.7767	0.5511	0.5533
column-2c	0.8524	0.7048	0.7048
column-3c	0.7333	0.6810	0.6898
connect-4	0.0068	0.0000	0.0000
coupon	0.3625	0.0000	0.0000
covtype	0.0763	0.0000	0.0000
covtypeCD	0.9873	0.9745	0.9746
covtypeT	0.9513	0.9024	0.9026
crabs	0.9141	0.8667	0.8785
creditcard_trans	0.4996	0.0000	0.0000
crowdsourced	0.8512	0.8703	0.8714
cryotherapy	0.7404	0.3721	0.4781
cultivars	0.5049	0.6777	0.6854
cybersecurity	0.1441	-0.0248	0.0000
cyclopentane	0.7000	0.4000	0.4000
cylinder-bands	0.8308	0.6611	0.6616
datatrieve	0.4800	0.0000	0.0000
Continued on next page			

Dataset	F1-macro	Kappa	MCC
dating	0.0181	0.0000	0.0000
dbworld	0.3636	0.0000	0.0000
default	0.7091	0.3971	0.4149
dementia	1.0000	1.0000	1.0000
deposit	0.4689	0.0000	0.0000
depressed	0.5942	0.0997	0.1508
dermatology	0.9429	0.9325	0.9325
desharnais	0.6364	0.3684	0.3796
df_final	0.8268	0.7108	0.7153
DIA	0.7854	0.5263	0.5661
diabetes-100k	0.4778	0.0000	0.0000
diagnosis	1.0000	1.0000	1.0000
diamonds	1.0000	1.0000	1.0000
diamonds_all	0.7896	0.7118	0.7135
dishonest	1.0000	1.0000	1.0000
dlbcl-nih	0.6010	0.1429	0.1917
dlbcl-stanford	0.8333	0.6154	0.6667
dna0.1%	0.0028	0.0000	0.0000
dota2	0.3210	0.0000	0.0000
drebin	0.2700	0.0000	0.0000
dropout	0.6793	0.6020	0.6073
ecoli	0.5460	0.7954	0.8003
ecoliCP-IM	1.0000	1.0000	1.0000
ecoliM	0.9586	0.9138	0.9172
ecoliMU	0.7292	0.4359	0.4543
ecoliOM	0.8514	0.6526	0.6960
ecommerce	0.2343	-0.0137	0.0000
euthyroid	0.6870	0.3245	0.3602
fakenews	0.4850	-0.0300	0.0000
fbis-wc	0.0042	0.0000	0.0000
finance	0.7458	0.4709	0.4912
financial-risk	0.8967	0.9025	0.9027
flags	0.0476	0.0000	0.0000
forest	0.9069	0.8937	0.8983
gas	0.9939	0.9930	0.9930
gastrointestinal	0.8305	0.6981	0.7116
gender	0.4896	0.1624	0.1729
german	0.6574	0.2822	0.3111
gestures	0.9172	0.8893	0.8896
gina	0.9481	0.8962	0.8962
gisette	0.3333	0.0000	0.0000
glass	0.7716	0.7399	0.7469
glass-g2	0.9352	0.8621	0.8704
glassBWFP	1.0000	1.0000	1.0000
glassBWNFP	0.7042	0.4000	0.4082
glassContainers	0.8483	0.6452	0.6901
glassNW	0.9340	0.8591	0.8677
glassTableware	1.0000	1.0000	1.0000
GlaucomaM	0.7389	0.4751	0.4778
gli_85	0.2000	0.0000	0.0000
glioma	0.6250	0.7059	0.7500
glioma-grade	0.8531	0.7061	0.7061
green	0.5238	0.0476	0.0476
gsalc	1.0000	1.0000	1.0000
haberman	0.6902	0.3787	0.3802
hapt	0.0012	0.0000	0.0000
har	0.9881	0.9858	0.9858
harth10%	0.0096	0.0000	0.0000
Continued on next page			

Dataset	F1-macro	Kappa	MCC
health-activity	0.2175	0.0000	0.0000
heart	0.8465	0.6842	0.6929
heart-c	0.8374	0.6606	0.6748
heart-failure	0.9860	0.9720	0.9721
heart-quantum	0.9249	0.8387	0.8498
hepatitis	0.6481	0.2857	0.2942
higher	0.3643	0.3212	0.3381
hinselmann	0.6875	0.3750	0.3750
hitters	0.9373	0.8745	0.8745
hiv1-proteasa	0.7777	0.5440	0.5539
hiva	0.0342	0.0000	0.0000
horse	0.6749	0.4438	0.4754
hotel-reservartions	0.8961	0.7916	0.7921
hr	0.4602	-0.0199	0.0000
ht-sensor	0.1650	0.0000	0.0000
htru2	0.9326	0.8643	0.8652
hypothyroid	0.7262	0.9519	0.9521
immuno-therapy	0.6786	0.3571	0.3571
ionosphere	0.9337	0.8674	0.8674
iris	0.9333	0.8993	0.9054
irish	1.0000	1.0000	1.0000
isolet	0.0029	0.0000	0.0000
jm1	0.6706	0.3068	0.3338
jvowels	0.9546	0.9511	0.9511
kc1-class-level-numericdefect	0.1636	0.0000	0.0000
kc1-class-level-top5percentDF	0.4643	-0.0714	0.0000
kc2	0.6298	0.2394	0.2551
kdc-4007	0.0345	0.0000	0.0000
kddcup991%	0.8231	0.9969	0.9969
kidney	0.1778	0.0000	0.0000
kidney-disease	0.3846	0.0000	0.0000
la2s-wc	0.0319	0.0000	0.0000
labor	0.7500	0.4000	0.5000
leaf	0.2541	0.4501	0.4596
led24	0.6364	0.6078	0.6147
lenses	1.0000	1.0000	1.0000
letter	0.9434	0.9412	0.9412
linkage1%	0.9879	0.9755	0.9758
loan	0.9875	0.9750	0.9751
lrs	0.4384	0.7636	0.7736
lung_discrete	0.7143	1.0000	1.0000
lymphography	0.4140	0.6000	0.6181
lymphoma2	0.5263	0.8500	0.8645
machine-failure	0.9121	0.8234	0.8242
magic04	0.8649	0.7281	0.7298
malware	1.0000	1.0000	1.0000
mammography	0.8138	0.6255	0.6277
marketing	0.7888	0.5404	0.5721
mba	0.4038	0.2019	0.2064
mental-disorders	0.8333	0.7778	0.7778
messidor	0.7007	0.4012	0.4015
meter-A	1.0000	1.0000	1.0000
meter-B	1.0000	1.0000	1.0000
meter-C	0.9583	0.9234	0.9274
meter-D	0.9148	0.9221	0.9262
mfeat-fac	0.9556	0.9500	0.9502
mfeat-fou	0.8313	0.8111	0.8116
mfeat-kar	0.9264	0.9167	0.9170
Continued on next page			

Dataset	F1-macro	Kappa	MCC
mfeat-mor	0.6997	0.6611	0.6619
mfeat-pix	0.9563	0.9500	0.9504
mfeat-zer	0.7657	0.7333	0.7340
mice-prot	1.0000	1.0000	1.0000
milk	1.0000	1.0000	1.0000
mines	0.5281	0.4463	0.4472
mobile	0.9017	0.8896	0.8901
monks-1	1.0000	1.0000	1.0000
monks-3	0.9653	0.9283	0.9307
mushroom	1.0000	1.0000	1.0000
music	0.5212	0.3827	0.3848
MUT_ci300400a_cdk_ECFP2	0.2944	0.0000	0.0000
MUT_ci300400a_cdk_ECFP4	0.2942	0.0000	0.0000
MUT_ci300400a_cdk_ECFP6	0.2948	0.0000	0.0000
MUT_ci300400a_cdk_ESTATE	0.7596	0.5172	0.5192
MUT_ci300400a_cdk_EXTENDED	0.2944	0.0000	0.0000
MUT_ci300400a_cdk_FCFP2	0.2942	0.0000	0.0000
MUT_ci300400a_cdk_FCFP4	0.2944	0.0000	0.0000
MUT_ci300400a_cdk_FCFP6	0.2944	0.0000	0.0000
MUT_ci300400a_cdk_MACCS	0.8592	0.7180	0.7183
MUT_ci300400a_cdk_PUBCHEM	0.2942	0.0000	0.0000
MUT_ci300400a_cdk_STANDARD	0.2942	0.0000	0.0000
MUT_ci300400a_rdkit_descriptors	0.8578	0.7157	0.7157
myocardial	0.3102	0.3867	0.4911
naticusdroid	0.3328	0.0000	0.0000
nci9	0.4148	0.6129	0.6556
ncRNA10%	0.0461	0.0000	0.0000
neo	0.7210	0.4216	0.4374
new-thyroid	1.0000	1.0000	1.0000
new-thyroidT	1.0000	1.0000	1.0000
newspop	0.3187	0.0000	0.0000
NHANES_age_prediction	1.0000	1.0000	1.0000
nomao	0.4167	0.0000	0.0000
nursery	0.7995	0.9989	0.9989
obesity	0.9760	0.9723	0.9724
obs	1.0000	1.0000	1.0000
oh0-wc	0.8808	0.8635	0.8661
oh10-wc	0.7995	0.7726	0.7771
oh15-wc	0.8657	0.8514	0.8536
oh5-wc	0.8205	0.7757	0.7812
olive	0.9385	0.9343	0.9362
optdigits	0.9520	0.9446	0.9447
orlraws10P	1.0000	1.0000	1.0000
ozone1hr	0.4889	-0.0131	0.0000
p53-mutants10%	0.4992	0.0000	0.0000
parkinson	0.9915	0.9828	0.9830
particle	0.2191	0.0000	0.0000
pc1	0.6644	0.2997	0.3199
pcmac	0.2945	0.0000	0.0000
pediatric-leukemia	0.6545	0.6738	0.6760
pendigits	0.9845	0.9828	0.9828
period-10f	0.5000	0.0000	0.0000
persistence	0.7807	0.5611	0.5615
personalities	0.0074	0.0000	0.0000
pet-adoption	0.9319	0.8600	0.8638
phishing	0.9614	0.9228	0.9228
PhiUSIL10%	0.3637	0.0000	0.0000
phy	0.3346	0.0000	0.0000
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Dataset	F1-macro	Kappa	MCC
pima	0.7180	0.4294	0.4359
pirvision	0.9954	0.9917	0.9917
placement	0.7754	0.5494	0.5509
plrx	0.3793	-0.1887	0.0000
polya	0.7507	0.4966	0.5013
popularity	0.1591	0.0000	0.0000
post-operative	0.2051	-0.3636	0.0000
postures	0.0690	0.0000	0.0000
pred-tox_mutagen_ref-desc	0.7207	0.4412	0.4414
prestige	0.8046	0.6667	0.7206
primary-tumor	0.3372	0.3556	0.3616
processed	0.4040	0.0000	0.0000
profb	0.6467	0.2903	0.2932
promoters	0.6250	0.2308	0.2500
puc-rio	0.0936	0.0000	0.0000
pufs-1281%	0.3333	0.0000	0.0000
pufs-6410%	0.3334	0.0000	0.0000
pulsar	0.9560	0.9103	0.9120
raisin	0.8893	0.7778	0.7785
rejafada	1.0000	1.0000	1.0000
relathe	1.0000	1.0000	1.0000
rice	0.9861	0.9722	0.9723
rocket	0.7032	0.4064	0.4064
RT_IOT2022	0.0054	0.0000	0.0000
satimage	0.8959	0.8866	0.8875
scadi	0.1200	0.0000	0.0000
schiller	0.8333	0.6087	0.6614
sclerosis	0.9641	0.9256	0.9282
secom	0.4834	0.0000	0.0000
secondary_mushroom	0.3568	0.0000	0.0000
seeds	0.9553	0.9286	0.9317
segment	0.9543	0.9392	0.9397
segmentation	0.8431	0.6861	0.6861
segmentO	1.0000	1.0000	1.0000
seismic	0.5437	0.0628	0.0760
sens-2-gram	0.6856	0.1312	0.2650
sens-3-gram	0.4648	0.0000	0.0000
sens-4-gram	0.4648	0.0000	0.0000
sensorless	0.9915	0.9906	0.9906
shoppers	0.7845	0.5640	0.5684
sick	0.9093	0.8149	0.8184
sirtuin6	1.0000	1.0000	1.0000
smarket	0.9921	0.9840	0.9841
smk_can_187	0.3214	0.0000	0.0000
smoking	0.3876	0.0000	0.0000
soil_pollution	0.2110	0.0121	0.0121
solar-flare	0.6402	0.7061	0.7086
sonar	0.6094	0.2000	0.2182
soybean	0.9330	0.9195	0.9204
spam-detection	0.8519	0.7038	0.7039
spambase	0.9407	0.8811	0.8815
spect	0.6021	0.2025	0.2039
spectf	0.8552	0.7021	0.7100
spectrometer	0.6227	0.6737	0.6767
squash-unstored	0.4375	0.3333	0.3608
startup	1.0000	1.0000	1.0000
steel_industry	0.8961	0.8667	0.8667
stellar	0.2486	0.0000	0.0000
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Dataset	F1-macro	Kappa	MCC
stock	0.7953	0.5899	0.5905
stockb	0.9956	0.9934	0.9934
streaming	0.9960	0.9919	0.9919
stress	0.9690	0.9603	0.9609
student-depression	0.3693	0.0000	0.0000
student-habits	0.1610	-0.0314	0.0000
student-lifestyle	0.3099	0.2493	0.2504
student-weekend	0.3596	0.2166	0.2220
student-workday	0.2708	0.2381	0.2923
studentap	0.5166	0.2778	0.2805
swarm_aligned	0.4075	0.0000	0.0000
swarm_flocking	0.3333	0.0000	0.0000
swarm_grouped	0.3846	0.0000	0.0000
tae	0.6082	0.4000	0.4027
telco-churn	0.8496	0.6984	0.6992
texture	0.9727	0.9679	0.9680
theorem	1.0000	1.0000	1.0000
thoracic	0.7093	0.2210	0.3525
Thyroid_Diff	0.9365	0.8648	0.8728
tis	0.1984	0.0000	0.0000
titanic	0.7934	0.5163	0.5813
tourist	0.0444	0.0000	0.0000
trains	0.3333	0.0000	0.0000
transfusion	0.4505	-0.0830	0.0000
tuandromd	0.9861	0.9722	0.9722
turkish	0.8014	0.7333	0.7376
tvnews	0.2679	0.0000	0.0000
ur3_cobotops_grip	0.7610	0.4602	0.5071
ur3_cobotops_stop	0.8099	0.5935	0.6152
urban	0.8371	0.8065	0.8098
ustilago10%	0.0106	0.0000	0.0000
vehicle	0.7373	0.6954	0.6990
vote	0.8674	0.7220	0.7347
vowel	0.7189	0.6889	0.6925
wap-wc	0.0013	0.0000	0.0000
warpar10p	0.7059	0.7400	0.7553
warppie10p	1.0000	1.0000	1.0000
waveform	0.8421	0.7630	0.7632
weather-related	0.9761	0.9717	0.9718
weight-lift	0.0621	0.0000	0.0000
white-clover	0.1250	-0.5000	0.0000
wifi-loc	0.9850	0.9800	0.9800
wilt	0.9562	0.9123	0.9123
wine	1.0000	1.0000	1.0000
winequality-red	0.3513	0.5541	0.5562
winequality-white	0.4263	0.5252	0.5286
winnipeg10%	0.0307	0.0000	0.0000
wisc.bc	0.9817	0.9627	0.9633
yale	0.7318	0.7322	0.7416
yeast	0.3865	0.4388	0.4473
yeastCYT-POX	0.8492	0.6475	0.6919
yeastEXC	0.7431	0.4861	0.4861
yeastME1	0.9318	0.8538	0.8630
yeastME2	0.7170	0.3825	0.4197
zip	0.0162	0.0000	0.0000

Table 40: Detailed results for SBFC

Dataset	F1-macro	Kappa	MCC
abalone	0.0298	0.0514	0.0854
abalone19	0.4982	0.0000	0.0000
accelerometer	0.6916	0.3652	0.3778
ads	0.9149	0.8278	0.8296
adult	0.4328	0.0000	0.0000
advanced-iot	1.0000	1.0000	1.0000
AID_1431	0.4772	0.0000	0.0000
AID_1431_KlekotaRothFingerprinter	0.4772	0.0000	0.0000
AID_1431_MACCSFingerprinter	0.4772	0.0000	0.0000
AID_1878	0.5723	0.0987	0.1272
AID_602330	0.4894	0.0000	0.0000
AID_652128	0.3118	0.0000	0.0000
AID1284red	0.4627	0.0000	0.0000
AID1608Morered	0.0636	0.0000	0.0000
AID1608red	0.4850	0.0000	0.0000
AID362red	0.4965	0.0000	0.0000
AID373AID439red	0.4962	0.0000	0.0000
AID373red	0.0010	0.0000	0.0000
AID456red	0.4992	0.0000	0.0000
AID604	0.6170	0.0199	0.0867
AID604AID644_AllRed	0.4997	0.0000	0.0000
AID687AID721red	0.0006	0.0000	0.0000
AID687red	0.4992	0.0000	0.0000
AID688red	0.4977	0.0000	0.0000
AID721morered	0.1818	0.0000	0.0000
AID721red	0.4375	0.0000	0.0000
AID746AID1284red	0.0010	0.0000	0.0000
AID746red	0.4977	0.0000	0.0000
aids	0.8157	0.6293	0.6313
air_pollution	0.0826	0.0000	0.0000
alcohol	0.3686	0.3639	0.3791
all-aml	1.0000	1.0000	1.0000
anneal	0.0044	0.0000	0.0000
antivirus	0.1591	0.0000	0.0000
anuran-f-b	1.0000	1.0000	1.0000
anxiety	0.0232	0.0000	0.0000
apple-quality	0.7475	0.4950	0.4950
aps-failure	0.4955	0.0000	0.0000
arabidopsis1%	0.0078	0.0000	0.0000
arcene	0.2857	0.0000	0.0000
arrhythmia	0.0085	0.0000	0.0000
auction	0.9321	0.8633	0.8642
audiology	0.0390	0.0000	0.0000
audit-risk	1.0000	1.0000	1.0000
autism-adolescent	1.0000	1.0000	1.0000
autism-adult	0.4215	0.0000	0.0000
autism-child	0.3409	0.0000	0.0000
autos	0.8988	0.8020	0.8214
avila	0.9975	0.9988	0.9988
balance	0.5379	0.5778	0.5930
bank	0.7553	0.5048	0.5095
bankruptcy	1.0000	1.0000	1.0000
bio	0.4978	0.0000	0.0000
biodeg	0.8314	0.6616	0.6628
biomed	1.0000	1.0000	1.0000
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Dataset	F1-macro	Kappa	MCC
bitcoin10%	0.0006	0.0000	0.0000
body-perf	0.6436	0.5244	0.5253
brain-tumor	0.3340	0.0000	0.0000
breast-cancer	0.7739	0.5455	0.5477
breast-cancer-ma	0.3529	0.0000	0.0000
breast-tissue	0.7500	0.7778	0.7857
bridges	0.0303	0.0000	0.0000
bub12at310k-hg16-17	0.4762	0.0000	0.0000
cad	1.0000	1.0000	1.0000
cancer	0.9841	0.9677	0.9682
cancer-uae	0.2201	0.0000	0.0000
car-insurance	0.7783	0.5540	0.5565
cardiotocography-nsp	0.8651	0.7722	0.7759
cardiovascular	0.7346	0.4681	0.4692
cargo2k	1.0000	1.0000	1.0000
cars	0.4772	0.3174	0.3178
ccds10%	0.0365	0.0000	0.0000
cdc_diabetes	0.0119	0.0000	0.0000
census	0.4779	0.0000	0.0000
cervical-B	0.4819	0.0000	0.0000
cervical-H	0.4881	0.0000	0.0000
cervical-S	0.4756	0.0000	0.0000
children-anemia	0.9342	0.9116	0.9126
chrom19	0.9173	0.8417	0.8588
chrom211%	0.5037	0.0000	0.0000
churn	0.7559	0.4960	0.5098
cjs	0.0426	0.0000	0.0000
ckd	0.3939	0.0000	0.0000
clave	0.6854	0.6636	0.6756
cll_sub_111	0.8611	0.7273	0.7273
cmc	0.5502	0.3073	0.3080
cnae-9	0.9289	0.9167	0.9170
codon_usage	0.8298	0.8522	0.8526
coil20	0.0046	0.0000	0.0000
college	0.9196	0.8387	0.8391
collins	0.0099	0.0000	0.0000
colon-tumor	0.8537	0.6667	0.7071
colposcopies-1	0.7271	0.4528	0.4542
colposcopies-2	0.6526	0.2770	0.3025
colposcopies-4	0.7150	0.3873	0.4243
colposcopies-5	0.6738	0.3439	0.3469
colposcopies-c	0.8560	0.6692	0.7091
column-2c	0.8486	0.6884	0.6970
column-3c	0.7335	0.6193	0.6432
connect-4	0.6395	0.4133	0.4875
coupon	0.3625	0.0000	0.0000
covtype	0.9099	0.9167	0.9218
covtypeCD	0.1202	0.0000	0.0000
covtypeT	0.4819	0.0000	0.0000
crabs	0.7140	0.6000	0.6082
creditcard_trans	0.9210	0.8343	0.8380
crowdsourced	0.8415	0.8598	0.8599
cryotherapy	0.7404	0.3721	0.4781
cultivars	0.0056	0.0236	0.0311
cybersecurity	0.0500	0.0000	0.0000
cyclopentane	0.7191	0.4194	0.4382
cylinder-bands	0.2987	0.0000	0.0000
datatrieve	0.4800	0.0000	0.0000
Continued on next page			

Dataset	F1-macro	Kappa	MCC
dating	0.0185	0.0000	0.0000
dbworld	0.3636	0.0000	0.0000
default	0.7125	0.4185	0.4241
dementia	1.0000	1.0000	1.0000
deposit	0.7234	0.4410	0.4457
depressed	0.4542	0.0000	0.0000
dermatology	0.9429	0.9325	0.9325
desharnais	0.7132	0.5789	0.5966
df_final	0.1818	0.0000	0.0000
DIA	0.4286	0.0000	0.0000
diabetes-100k	0.8971	0.7600	0.7802
diagnosis	1.0000	1.0000	1.0000
diamonds	1.0000	1.0000	1.0000
diamonds_all	0.7263	0.6354	0.6381
dishonest	0.9283	0.8462	0.8563
dlbcl-nih	0.3684	0.0000	0.0000
dlbcl-stanford	1.0000	1.0000	1.0000
dna0.1%	0.0028	0.0000	0.0000
dota2	0.5754	0.1350	0.1411
drebin	0.9438	0.8870	0.8877
dropout	0.7191	0.6431	0.6441
ecoli	0.5300	0.7969	0.7998
ecoliCP-IM	1.0000	1.0000	1.0000
ecoliM	0.8522	0.6959	0.7040
ecoliMU	0.6822	0.3529	0.3614
ecoliOM	0.8514	0.6526	0.6960
ecommerce	0.1032	0.0000	0.0000
euthyroid	0.9064	0.8103	0.8126
fakenews	0.3355	0.0000	0.0000
fbis-wc	0.6709	0.7362	0.7380
finance	0.3544	0.0000	0.0000
financial-risk	0.0692	0.0000	0.0000
flags	0.0476	0.0000	0.0000
forest	0.9331	0.9206	0.9239
gas	0.0388	0.0000	0.0000
gastrointestinal	0.2222	0.0000	0.0000
gender	0.4649	0.1662	0.1767
german	0.3939	0.0000	0.0000
gestures	0.9468	0.9292	0.9293
gina	0.9022	0.8038	0.8043
gisette	0.9472	0.8899	0.8964
glass	0.7409	0.6688	0.6709
glass-g2	0.9352	0.8621	0.8704
glassBWFP	0.8990	0.7981	0.7981
glassBWNFP	0.7427	0.4828	0.4854
glassContainers	0.4762	0.0000	0.0000
glassNW	0.9340	0.8591	0.8677
glassTableware	0.4884	0.0000	0.0000
GlaucomaM	0.8944	0.7889	0.7889
gli_85	0.2000	0.0000	0.0000
glioma	0.6250	0.7059	0.7500
glioma-grade	0.8707	0.7360	0.7414
green	0.8824	0.7368	0.7638
gsalc	1.0000	1.0000	1.0000
haberman	0.5739	0.1477	0.1477
hapt	0.0012	0.0000	0.0000
har	0.9639	0.9568	0.9568
harth10%	0.0002	0.0000	0.0000
Continued on next page			

Dataset	F1-macro	Kappa	MCC
health-activity	0.2175	0.0000	0.0000
heart	0.7284	0.4553	0.4567
heart-c	0.9330	0.8661	0.8661
heart-failure	0.9814	0.9629	0.9629
heart-quantum	0.9083	0.8000	0.8165
hepatitis	0.8544	0.6667	0.7071
higher	0.1598	0.1975	0.2962
hinselmann	0.4444	0.0000	0.0000
hitters	0.9373	0.8745	0.8745
hiv1-proteasa	0.8134	0.6227	0.6264
hiva	0.0342	0.0000	0.0000
horse	0.7062	0.5628	0.5742
hotel-reservartions	0.8074	0.6124	0.6146
hr	0.4612	-0.0135	0.0000
ht-sensor	0.1650	0.0000	0.0000
htru2	0.9334	0.8665	0.8668
hypothyroid	0.7384	0.9532	0.9534
immuno-therapy	0.8784	0.7273	0.7559
ionosphere	0.9038	0.8059	0.8076
iris	1.0000	1.0000	1.0000
irish	0.9800	0.9592	0.9600
isolet	0.0029	0.0000	0.0000
jm1	0.6371	0.2233	0.2603
jvowels	0.8992	0.8908	0.8908
kc1-class-level-numericdefect	0.1400	-0.1471	0.0000
kc1-class-level-top5percentDF	0.7761	0.4444	0.5345
kc2	0.6512	0.2956	0.3012
kdc-4007	0.0345	0.0000	0.0000
kddcup991%	0.0253	0.0000	0.0000
kidney	0.1778	0.0000	0.0000
kidney-disease	1.0000	1.0000	1.0000
la2s-wc	0.7198	0.6442	0.6870
labor	0.8537	0.6667	0.7071
leaf	0.6185	0.6591	0.6639
led24	0.6650	0.6610	0.6648
lenses	1.0000	1.0000	1.0000
letter	0.8575	0.8523	0.8523
linkage1%	0.9879	0.9755	0.9758
loan	0.9705	0.9393	0.9410
lrs	0.6165	0.7669	0.7712
lung_discrete	0.6767	0.8462	0.8629
lymphography	0.8456	0.6147	0.6205
lymphoma2	1.0000	1.0000	1.0000
machine-failure	0.9237	0.8472	0.8474
magic04	0.8199	0.6320	0.6395
malware	0.1591	0.0000	0.0000
mammography	0.8536	0.7072	0.7072
marketing	0.1284	0.0000	0.0000
mba	0.3041	0.0000	0.0000
mental-disorders	0.9270	0.8889	0.8972
messidor	0.6933	0.3701	0.3866
meter-A	1.0000	1.0000	1.0000
meter-B	1.0000	1.0000	1.0000
meter-C	1.0000	1.0000	1.0000
meter-D	1.0000	1.0000	1.0000
mfeat-fac	0.9654	0.9611	0.9613
mfeat-fou	0.7745	0.7500	0.7509
mfeat-kar	0.9464	0.9389	0.9391
Continued on next page			

Dataset	F1-macro	Kappa	MCC
mfeat-mor	0.7092	0.6778	0.6783
mfeat-pix	0.9369	0.9278	0.9282
mfeat-zer	0.7775	0.7500	0.7505
mice-prot	1.0000	1.0000	1.0000
milk	0.9789	0.9711	0.9717
mines	0.4646	0.4081	0.4308
mobile	0.9442	0.9395	0.9397
monks-1	0.7428	0.3746	0.4801
monks-3	0.9642	0.9285	0.9285
mushroom	0.3253	0.0000	0.0000
music	0.5205	0.4080	0.4112
MUT_ci300400a_cdk_ECFP2	0.2944	0.0000	0.0000
MUT_ci300400a_cdk_ECFP4	0.8032	0.5948	0.5997
MUT_ci300400a_cdk_ECFP6	0.7562	0.5213	0.5196
MUT_ci300400a_cdk_ESTATE	0.2944	0.0000	0.0000
MUT_ci300400a_cdk_EXTENDED	0.3682	0.0000	0.0000
MUT_ci300400a_cdk_FCFP2	0.8016	0.5886	0.5906
MUT_ci300400a_cdk_FCFP4	0.2944	0.0000	0.0000
MUT_ci300400a_cdk_FCFP6	0.2944	0.0000	0.0000
MUT_ci300400a_cdk_MACCS	0.2944	0.0000	0.0000
MUT_ci300400a_cdk_PUBCHEM	0.8284	0.6443	0.6444
MUT_ci300400a_cdk_STANDARD	0.2942	0.0000	0.0000
MUT_ci300400a_rdkit_descriptors	0.2988	0.0000	0.0000
myocardial	0.4961	0.5884	0.6032
naticusdroid	0.9437	0.8868	0.8875
nci9	0.0476	0.0000	0.0000
ncRNA10%	0.0461	0.0000	0.0000
neo	0.4744	0.0000	0.0000
new-thyroid	1.0000	1.0000	1.0000
new-thyroidT	1.0000	1.0000	1.0000
newspop	0.3187	0.0000	0.0000
NHANES_age_prediction	1.0000	1.0000	1.0000
nomao	0.9363	0.8727	0.8727
nursery	0.8371	0.8633	0.8644
obesity	0.8826	0.8561	0.8593
obs	1.0000	1.0000	1.0000
oh0-wc	0.9227	0.9097	0.9101
oh10-wc	0.8025	0.7943	0.7952
oh15-wc	0.9056	0.8890	0.8896
oh5-wc	0.0143	0.0000	0.0000
olive	0.9231	0.9347	0.9355
optdigits	0.0163	0.0000	0.0000
orlraws10P	1.0000	1.0000	1.0000
ozone1hr	0.6803	0.3245	0.3501
p53-mutants10%	0.4992	0.0000	0.0000
parkinson	0.9915	0.9828	0.9830
particle	0.9167	0.8253	0.8147
pc1	0.6396	0.2671	0.2754
pcmac	0.3681	0.0000	0.0000
pediatric-leukemia	0.0159	0.0000	0.0000
pendigits	0.9736	0.9707	0.9707
period-10f	0.4000	0.0000	0.0000
persistence	0.7842	0.5680	0.5683
personalities	0.9393	0.9351	0.9351
pet-adoption	0.8736	0.7454	0.7472
phishing	0.9614	0.9225	0.9228
PhiUSIL10%	0.3637	0.0000	0.0000
phy	0.3321	0.0000	0.0000
Continued on next page			

Dataset	F1-macro	Kappa	MCC
pima	0.7776	0.5543	0.5551
pirvision	0.9575	0.9454	0.9460
placement	0.7731	0.5462	0.5462
plrx	0.4194	0.0000	0.0000
polya	0.7467	0.4933	0.4934
popularity	0.1591	0.0000	0.0000
post-operative	0.2500	0.0000	0.0000
postures	0.0690	0.0000	0.0000
pred-tox_mutagen_ref-desc	0.7391	0.4706	0.4781
prestige	0.8889	0.8302	0.8462
primary-tumor	0.3939	0.4246	0.4368
processed	0.9917	0.9990	0.9850
profb	0.4018	0.0000	0.0000
promoters	0.9083	0.8000	0.8165
puc-rio	0.0936	0.0000	0.0000
pufs-1281%	0.3334	0.0000	0.0000
pufs-6410%	0.4937	-0.0133	0.0000
pulsar	0.9486	0.8958	0.8971
raisin	0.8578	0.7111	0.7155
rejafada	1.0000	1.0000	1.0000
relathe	0.3516	0.0000	0.0000
rice	0.9834	0.9667	0.9667
rocket	0.6624	0.3246	0.3248
RT_IOT2022	0.0054	0.0000	0.0000
satimage	0.8760	0.8663	0.8666
scadi	0.1200	0.0000	0.0000
schiller	1.0000	1.0000	1.0000
sclerosis	1.0000	1.0000	1.0000
secom	0.6217	0.1485	0.2028
secondary_mushroom	1.0000	0.9901	1.0000
seeds	0.9553	0.9286	0.9317
segment	0.9767	0.9696	0.9699
segmentation	0.8362	0.6671	0.6723
segmentO	1.0000	1.0000	1.0000
seismic	0.4830	0.0000	0.0000
sens-2-gram	0.4648	0.0000	0.0000
sens-3-gram	0.4648	0.0000	0.0000
sens-4-gram	0.4681	0.0000	0.0000
sensorless	0.0151	0.0000	0.0000
shoppers	0.7858	0.5705	0.5714
sick	0.8629	0.7223	0.7254
sirtuin6	1.0000	1.0000	1.0000
smarket	1.0000	1.0000	1.0000
smk_can_187	0.3214	0.0000	0.0000
smoking	0.7323	0.4620	0.4646
soil_pollution	0.0685	0.0000	0.0000
solar-flare	0.6428	0.6790	0.6810
sonar	0.8518	0.7000	0.7035
soybean	0.0015	0.0000	0.0000
spam-detection	0.8373	0.6488	0.6714
spambase	0.9270	0.8531	0.8540
spect	0.8146	0.6170	0.6287
spectf	0.8990	0.7961	0.7980
spectrometer	0.0856	0.0953	0.1903
squash-unstored	1.0000	1.0000	1.0000
startup	0.3922	0.0000	0.0000
steel_industry	0.8481	0.8021	0.8029
stellar	0.2486	0.0000	0.0000
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Dataset	F1-macro	Kappa	MCC
stock	1.0000	1.0000	1.0000
stockb	0.9826	0.9736	0.9737
streaming	0.9920	0.9838	0.9839
stress	1.0000	1.0000	1.0000
student-depression	0.8245	0.6479	0.6490
student-habits	0.1101	0.0000	0.0000
student-lifestyle	0.3341	0.3851	0.3883
student-weekend	0.2044	0.1579	0.2034
student-workday	0.1651	0.0000	0.0000
studentap	0.1852	0.0000	0.0000
swarm_aligned	0.4062	0.0000	0.0000
swarm_flocking	0.3327	0.0000	0.0000
swarm_grouped	0.3824	0.0000	0.0000
tae	0.1667	0.0000	0.0000
telco-churn	0.8994	0.7987	0.7988
texture	0.9865	0.9840	0.9840
theorem	0.8721	0.7396	0.7441
thoracic	0.4598	0.0000	0.0000
Thyroid_Diff	0.9048	0.7912	0.8090
tis	0.1984	0.0000	0.0000
titanic	0.7101	0.4121	0.4196
tourist	0.0444	0.0000	0.0000
trains	0.3333	0.0000	0.0000
transfusion	0.5934	0.1848	0.1865
tuandromd	0.4439	0.0000	0.0000
turkish	0.8199	0.7667	0.7705
tvnews	0.2679	0.0000	0.0000
ur3_cobotops_grip	0.6844	0.3631	0.3671
ur3_cobotops_stop	0.8444	0.6722	0.6865
urban	0.3059	0.2503	0.2518
ustilago10%	0.0106	0.0000	0.0000
vehicle	0.7706	0.7106	0.7115
vote	0.9307	0.8605	0.8615
vowel	0.5200	0.4222	0.4328
wap-wc	0.4792	0.6611	0.6714
warpar10p	0.8330	0.8267	0.8379
warppie10p	1.0000	1.0000	1.0000
waveform	0.8241	0.7331	0.7367
weather-related	0.0296	0.0000	0.0000
weight-lift	1.0000	0.9944	0.9963
white-clover	0.4000	0.0000	0.0000
wifi-loc	0.9902	0.9867	0.9868
wilt	0.8685	0.7369	0.7369
wine	1.0000	1.0000	1.0000
winequality-red	0.2740	0.2974	0.3047
winequality-white	0.2811	0.2728	0.2757
winnipeg10%	0.0307	0.0000	0.0000
wisc.bc	1.0000	1.0000	1.0000
yale	0.0078	0.0000	0.0000
yeast	0.3962	0.4310	0.4349
yeastCYT-POX	0.9047	0.7897	0.8078
yeastEXC	0.4932	0.0000	0.0000
yeastME1	0.9318	0.8538	0.8630
yeastME2	0.4879	0.0000	0.0000
zip	0.0162	0.0000	0.0000

Table 41: Detailed results for STree

Dataset	F1-macro	Kappa	MCC
abalone	0.0726	0.1040	0.1167
abalone19	0.4982	0.0000	0.0000
accelerometer	0.4955	0.0000	0.0000
ads	0.9349	0.8609	0.8694
adult	0.7652	0.5168	0.5290
advanced-iot	1.0000	1.0000	1.0000
AID_1431	0.4772	0.0000	0.0000
AID_1431_KlekotaRothFingerprinter	0.4772	0.0000	0.0000
AID_1431_MACCSFingerprinter	0.4772	0.0000	0.0000
AID_1878	0.4503	0.0000	0.0000
AID_602330	0.4894	0.0000	0.0000
AID_652128	0.3118	0.0000	0.0000
AID1284red	0.4627	0.0000	0.0000
AID1608Morered	0.4824	0.0000	0.0000
AID1608red	0.4850	0.0000	0.0000
AID362red	0.4965	0.0000	0.0000
AID373AID439red	0.5000	0.0000	0.0000
AID373red	0.4997	0.0000	0.0000
AID456red	0.4992	0.0000	0.0000
AID604	0.4991	0.0000	0.0000
AID604AID644_AllRed	0.4997	0.0000	0.0000
AID687AID721red	0.4998	0.0000	0.0000
AID687red	0.4992	0.0000	0.0000
AID688red	0.4977	0.0000	0.0000
AID721morered	0.4375	0.0000	0.0000
AID721red	0.4375	0.0000	0.0000
AID746AID1284red	0.4997	0.0000	0.0000
AID746red	0.4985	0.0000	0.0000
aids	0.8324	0.6371	0.6628
air_pollution	0.0826	0.0000	0.0000
alcohol	0.5211	0.5011	0.5207
all-aml	1.0000	1.0000	1.0000
anneal	0.9714	0.9510	0.9525
antivirus	1.0000	1.0000	1.0000
anuran-f-b	0.9327	0.8558	0.8648
anxiety	0.1081	0.0063	0.0063
apple-quality	0.8842	0.7650	0.7685
aps-failure	0.8632	0.7137	0.7247
arabidopsis1%	0.7360	0.3508	0.4346
arcene	0.7462	0.4898	0.4924
arrhythmia	0.3681	0.4845	0.4957
auction	0.7615	0.3913	0.4932
audiology	0.3870	0.7522	0.7587
audit-risk	1.0000	1.0000	1.0000
autism-adolescent	1.0000	1.0000	1.0000
autism-adult	1.0000	1.0000	1.0000
autism-child	1.0000	1.0000	1.0000
autos	0.7147	0.8020	0.8102
avila	0.6998	0.6370	0.6640
balance	0.8213	0.8536	0.8541
bank	0.7361	0.4645	0.4707
bankruptcy	1.0000	1.0000	1.0000
bio	0.9092	0.8057	0.8172
biodeg	0.8682	0.7362	0.7364
biomed	1.0000	1.0000	1.0000
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Dataset	F1-macro	Kappa	MCC
bitcoin10%	0.0342	0.0000	0.0000
body-perf	0.6458	0.5194	0.5215
brain-tumor	0.3340	0.0000	0.0000
breast-cancer	0.7325	0.3226	0.4385
breast-cancer-ma	0.5345	0.0678	0.0690
breast-tissue	0.5664	0.5556	0.5612
bridges	0.5429	0.5714	0.5714
bub12at310k-hg16-17	0.4762	0.0000	0.0000
cad	1.0000	1.0000	1.0000
cancer	1.0000	1.0000	1.0000
cancer-uae	0.2201	0.0000	0.0000
car-insurance	0.8038	0.6072	0.6075
cardiotocography-nsp	0.8272	0.7326	0.7342
cardiovascular	0.7238	0.4386	0.4475
cargo2k	1.0000	1.0000	1.0000
cars	0.7153	0.6209	0.6217
ccds10%	0.4902	0.0000	0.0000
cdc_diabetes	0.4077	0.1167	0.1804
census	0.4817	0.0000	0.0000
cervical-B	0.7962	0.5764	0.5897
cervical-H	0.4881	0.0000	0.0000
cervical-S	0.8890	0.7514	0.7758
children-anemia	0.8936	0.8899	0.8914
chrom19	0.8613	0.7120	0.7211
chrom211%	0.4998	0.0000	0.0000
churn	0.6476	0.2134	0.2716
cjs	1.0000	1.0000	1.0000
ckd	1.0000	1.0000	1.0000
clave	0.6766	0.7150	0.7184
cll_sub_111	0.8028	0.6000	0.6068
cmc	0.4657	0.1916	0.1933
cnae-9	0.9254	0.9062	0.9084
codon_usage	0.7522	0.8739	0.8741
coil20	0.9933	0.9927	0.9927
college	0.9196	0.8387	0.8391
collins	0.5888	0.6466	0.6536
colon-tumor	0.7500	0.4000	0.5000
colposcopies-1	0.4577	-0.0675	0.0000
colposcopies-2	0.6059	0.1808	0.2076
colposcopies-4	0.7150	0.3873	0.4243
colposcopies-5	0.4528	0.0000	0.0000
colposcopies-c	0.7397	0.4487	0.4754
column-2c	0.8874	0.7726	0.7748
column-3c	0.7395	0.6853	0.6865
connect-4	1.0000	1.0000	1.0000
coupon	0.6719	0.3424	0.3439
covtype	0.0929	0.0000	0.0000
covtypeCD	0.9571	0.9136	0.9142
covtypeT	0.8943	0.7832	0.7881
crabs	1.0000	1.0000	1.0000
creditcard_trans	0.5051	0.0000	0.0000
crowdsourced	0.8211	0.8073	0.8083
cryotherapy	0.9000	0.7805	0.8000
cultivars	0.4463	0.5815	0.5868
cybersecurity	0.1715	0.0063	0.0063
cyclopentane	0.7000	0.4000	0.4000
cylinder-bands	0.7527	0.5049	0.5053
datatrieve	0.4800	0.0000	0.0000
Continued on next page			

Dataset	F1-macro	Kappa	MCC
dating	0.0185	0.0000	0.0000
dbworld	1.0000	1.0000	1.0000
default	0.6913	0.3384	0.3741
dementia	1.0000	1.0000	1.0000
deposit	0.7061	0.3890	0.4069
depressed	0.4542	0.0000	0.0000
dermatology	0.9429	0.9325	0.9325
desharnais	0.1818	-0.3333	0.0000
df_final	0.4798	0.4000	0.4507
DIA	0.6384	0.2432	0.2698
diabetes-100k	0.8496	0.6744	0.6962
diagnosis	1.0000	1.0000	1.0000
diamonds	1.0000	1.0000	1.0000
diamonds_all	0.7209	0.6202	0.6286
dishonest	1.0000	1.0000	1.0000
dlbcl-nih	0.5845	0.1667	0.1690
dlbcl-stanford	1.0000	1.0000	1.0000
dna0.1%	0.4993	0.0000	0.0000
dota2	0.5959	0.1903	0.1918
drebin	0.9779	0.9557	0.9557
dropout	0.6469	0.5845	0.6050
ecoli	0.4334	0.7098	0.7254
ecoliCP-IM	1.0000	1.0000	1.0000
ecoliM	0.8350	0.6700	0.6700
ecoliMU	0.7649	0.5217	0.5285
ecoliOM	0.8514	0.6526	0.6960
ecommerce	0.3294	0.0950	0.0960
euthyroid	0.8874	0.7723	0.7745
fakenews	0.5046	0.0092	0.0092
fbis-wc	0.7418	0.7860	0.7888
finance	0.9604	0.9208	0.9208
financial-risk	0.6472	0.7476	0.7489
flags	0.2812	0.4631	0.5043
forest	0.9071	0.8932	0.8975
gas	0.9934	0.9922	0.9922
gastrointestinal	0.5841	0.3373	0.3520
gender	0.4857	0.1614	0.1764
german	0.7372	0.4390	0.4717
gestures	0.6973	0.5859	0.5994
gina	0.8993	0.7980	0.7987
gisette	0.9743	0.9486	0.9486
glass	0.8089	0.5599	0.5808
glass-g2	0.7960	0.5862	0.5919
glassBWFP	0.8108	0.5532	0.6183
glassBWNFP	0.7237	0.4444	0.4472
glassContainers	0.4762	0.0000	0.0000
glassNW	0.8662	0.6957	0.7303
glassTableware	1.0000	1.0000	1.0000
GlaucomaM	0.7889	0.5778	0.5778
gli_85	1.0000	1.0000	1.0000
glioma	0.6250	0.7059	0.7500
glioma-grade	0.8845	0.7610	0.7689
green	0.6098	0.2105	0.2182
gsalc	1.0000	1.0000	1.0000
haberman	0.4231	0.0000	0.0000
hapt	0.8483	0.9567	0.9568
har	0.8971	0.8756	0.8770
harth10%	0.0517	0.0000	0.0000
Continued on next page			

Dataset	F1-macro	Kappa	MCC
health-activity	0.2175	0.0000	0.0000
heart	0.8064	0.6110	0.6128
heart-c	0.9067	0.7964	0.8134
heart-failure	0.9486	0.8968	0.8972
heart-quantum	0.9423	0.8780	0.8847
hepatitis	0.7266	0.4444	0.4523
higher	0.0441	0.0000	0.0000
hinselmann	0.4444	0.0000	0.0000
hitters	0.9373	0.8745	0.8745
hiv1-proteasa	0.8869	0.7730	0.7737
hiva	0.4910	0.0000	0.0000
horse	0.6544	0.4116	0.4857
hotel-reservartions	0.8300	0.6576	0.6599
hr	0.4633	0.0000	0.0000
ht-sensor	0.8107	0.7051	0.7063
htru2	0.9357	0.8697	0.8713
hypothyroid	0.7068	0.8997	0.9017
immuno-therapy	0.4375	0.0000	0.0000
ionosphere	0.9337	0.8674	0.8674
iris	1.0000	1.0000	1.0000
irish	1.0000	1.0000	1.0000
isolet	0.9104	0.9052	0.9054
jm1	0.6183	0.1289	0.1952
javowels	0.9675	0.9636	0.9636
kc1-class-level-numericdefect	0.0317	0.0455	0.0550
kc1-class-level-top5percentDF	0.4643	-0.0714	0.0000
kc2	0.5420	0.0574	0.0738
kdc-4007	0.6468	0.6828	0.6879
kddcup991%	0.4960	0.9969	0.9969
kidney	0.1778	0.0000	0.0000
kidney-disease	1.0000	1.0000	1.0000
la2s-wc	0.7787	0.7539	0.7563
labor	0.8537	0.6667	0.7071
leaf	0.3434	0.6004	0.6081
led24	0.6456	0.5604	0.5829
lenses	0.1667	0.0000	0.0000
letter	0.9006	0.8965	0.8966
linkage1%	1.0000	1.0000	1.0000
loan	0.9225	0.8449	0.8450
lrs	0.4628	0.8412	0.8535
lung_discrete	0.5466	0.8367	0.8549
lymphography	0.4062	0.5758	0.5836
lymphoma2	0.6667	1.0000	1.0000
machine-failure	0.8800	0.7599	0.7601
magic04	0.8278	0.6483	0.6554
malware	1.0000	1.0000	1.0000
mammography	0.8225	0.6449	0.6450
marketing	0.7519	0.4309	0.4894
mba	0.3041	0.0000	0.0000
mental-disorders	0.7603	0.6667	0.6729
messidor	0.7342	0.4627	0.4684
meter-A	0.7241	0.3333	0.4472
meter-B	1.0000	1.0000	1.0000
meter-C	0.9571	0.9227	0.9268
meter-D	0.8730	0.8442	0.8480
mfeat-fac	0.9852	0.9833	0.9834
mfeat-fou	0.8067	0.7833	0.7841
mfeat-kar	0.9355	0.9278	0.9281
Continued on next page			

Dataset	F1-macro	Kappa	MCC
mfeat-mor	0.7196	0.7111	0.7204
mfeat-pix	0.9651	0.9611	0.9612
mfeat-zer	0.8336	0.8167	0.8192
mice-prot	0.9914	0.9894	0.9895
milk	0.9918	0.9855	0.9856
mines	0.6220	0.5589	0.6042
mobile	0.6883	0.6760	0.6767
monks-1	0.7566	0.4118	0.5092
monks-3	0.8737	0.7168	0.7474
mushroom	1.0000	1.0000	1.0000
music	0.4688	0.3278	0.3368
MUT_ci300400a_cdk_ECFP2	0.8010	0.5976	0.6020
MUT_ci300400a_cdk_ECFP4	0.8006	0.6012	0.6013
MUT_ci300400a_cdk_ECFP6	0.7783	0.5560	0.5566
MUT_ci300400a_cdk_ESTATE	0.7327	0.4623	0.4654
MUT_ci300400a_cdk_EXTENDED	0.8190	0.6374	0.6380
MUT_ci300400a_cdk_FCFP2	0.7900	0.5783	0.5800
MUT_ci300400a_cdk_FCFP4	0.7847	0.5666	0.5693
MUT_ci300400a_cdk_FCFP6	0.7792	0.5585	0.5585
MUT_ci300400a_cdk_MACCS	0.7503	0.4966	0.5006
MUT_ci300400a_cdk_PUBCHEM	0.8363	0.6705	0.6726
MUT_ci300400a_cdk_STANDARD	0.7799	0.5597	0.5599
MUT_ci300400a_rdkit_descriptors	0.7906	0.5708	0.5810
myocardial	0.3332	0.3972	0.4227
naticusdroid	0.9697	0.9393	0.9395
nci9	0.4148	0.6129	0.6556
ncRNA10%	0.5797	0.7806	0.7844
neo	0.6541	0.1442	0.2373
new-thyroid	1.0000	1.0000	1.0000
new-thyroidT	1.0000	1.0000	1.0000
newspop	0.6446	0.2884	0.2892
NHANES_age_prediction	1.0000	1.0000	1.0000
nomao	0.9386	0.8772	0.8772
nursery	0.7119	0.8991	0.8992
obesity	0.9472	0.9391	0.9392
obs	0.9602	0.9168	0.9187
oh0-wc	0.7086	0.7017	0.7072
oh10-wc	0.5571	0.5092	0.5193
oh15-wc	0.5661	0.5205	0.5313
oh5-wc	0.6691	0.6606	0.6709
olive	0.9215	0.9118	0.9156
optdigits	0.9741	0.9703	0.9704
orlraws10P	1.0000	1.0000	1.0000
ozone1hr	0.4909	0.0000	0.0000
p53-mutants10%	0.4992	0.0000	0.0000
parkinson	0.9741	0.9481	0.9482
particle	0.8991	0.7981	0.7981
pc1	0.4813	0.0000	0.0000
pcmac	0.4764	-0.0062	0.0000
pediatric-leukemia	0.6899	0.7037	0.7249
pendigits	0.9863	0.9848	0.9848
period-10f	0.3571	-0.2000	0.0000
persistence	0.8075	0.6121	0.6149
personalities	0.9318	0.9271	0.9271
pet-adoption	0.8881	0.7570	0.7758
phishing	0.9578	0.9150	0.9155
PhiUSIL10%	1.0000	1.0000	1.0000
phy	0.6990	0.3979	0.3980
Continued on next page			

Dataset	F1-macro	Kappa	MCC
pima	0.7074	0.3667	0.4111
pirvision	0.9943	0.9896	0.9897
placement	0.7920	0.5840	0.5840
plrx	0.4194	0.0000	0.0000
polya	0.7676	0.5319	0.5351
popularity	0.4069	0.1546	0.1709
post-operative	0.2667	0.0000	0.0000
postures	0.9407	0.9259	0.9259
pred-tox_mutagen_ref-desc	0.6373	0.2647	0.2745
prestige	0.8889	0.8302	0.8462
primary-tumor	0.1410	0.2539	0.2801
processed	1.0000	1.0000	1.0000
profb	0.7346	0.4611	0.4688
promoters	0.8077	0.5455	0.6124
puc-rio	0.9684	0.9724	0.9724
pufs-1281%	0.5022	0.0043	0.0043
pufs-6410%	0.3334	0.0000	0.0000
pulsar	0.9382	0.8729	0.8762
raisin	0.9115	0.8222	0.8230
rejabatada	0.4910	0.0000	0.0000
relathe	1.0000	1.0000	1.0000
rice	0.9867	0.9733	0.9734
rocket	0.6327	0.2653	0.2655
RT_IOT2022	0.9699	0.9931	0.9931
satimage	0.8482	0.8440	0.8454
scadi	0.5333	0.8056	0.8289
schiller	0.6786	0.3571	0.3571
sclerosis	1.0000	1.0000	1.0000
secom	0.4834	0.0000	0.0000
secondary_mushroom	0.9997	0.9993	0.9993
seeds	0.9553	0.9286	0.9317
segment	0.9692	0.9595	0.9599
segmentation	0.7969	0.5919	0.5937
segmentO	1.0000	1.0000	1.0000
seismic	0.4830	0.0000	0.0000
sens-2-gram	0.4648	0.0000	0.0000
sens-3-gram	0.4648	0.0000	0.0000
sens-4-gram	0.4648	0.0000	0.0000
sensorless	0.9344	0.9276	0.9277
shoppers	0.7769	0.5444	0.5525
sick	0.8564	0.6843	0.7093
sirtuin6	1.0000	1.0000	1.0000
smarket	0.9921	0.9840	0.9841
smk_can_187	0.7889	0.5778	0.5778
smoking	0.7664	0.5326	0.5327
soil_pollution	0.1845	-0.0173	0.0000
solar-flare	0.5661	0.6237	0.6484
sonar	0.4497	-0.1000	0.0000
soybean	0.9357	0.9515	0.9520
spam-detection	0.8573	0.7129	0.7145
spambase	0.9157	0.8294	0.8314
spect	0.6786	0.3571	0.3571
spectf	0.8205	0.6392	0.6408
spectrometer	0.2530	0.5806	0.5844
squash-unstored	0.5714	0.6429	0.6944
startup	1.0000	1.0000	1.0000
steel_industry	0.7797	0.7135	0.7161
stellar	0.9594	0.9373	0.9375
Continued on next page			

Dataset	F1-macro	Kappa	MCC
stock	0.8238	0.6390	0.6468
stockb	1.0000	1.0000	1.0000
streaming	0.8745	0.7489	0.7490
stress	1.0000	1.0000	1.0000
student-depression	0.8286	0.6560	0.6572
student-habits	0.1101	0.0000	0.0000
student-lifestyle	0.2766	0.3600	0.3798
student-weekend	0.1691	0.1105	0.1343
student-workday	0.1651	0.0000	0.0000
studentap	0.4575	0.2909	0.3939
swarm_aligned	1.0000	1.0000	1.0000
swarm_flocking	0.9996	0.9992	0.9992
swarm_grouped	1.0000	1.0000	1.0000
tae	0.4121	0.1000	0.1066
telco-churn	0.8740	0.7472	0.7480
texture	0.9965	0.9960	0.9960
theorem	1.0000	1.0000	1.0000
thoracic	0.4598	0.0000	0.0000
Thyroid_Diff	0.9365	0.8648	0.8728
tis	0.8862	0.7714	0.7724
titanic	0.7934	0.5163	0.5813
tourist	0.4340	0.6098	0.6464
trains	0.3333	0.0000	0.0000
transfusion	0.4275	-0.0259	0.0000
tuandromd	0.9754	0.9507	0.9509
turkish	0.7979	0.7333	0.7389
tvnews	0.3926	0.0000	0.0000
ur3_cobotops_grip	0.4917	0.0000	0.0000
ur3_cobotops_stop	0.4906	0.0000	0.0000
urban	0.6356	0.6640	0.6715
ustilago10%	0.4973	0.0000	0.0000
vehicle	0.7065	0.6859	0.7081
vote	0.8878	0.7681	0.7756
vowel	0.6082	0.5333	0.5390
wap-wc	0.4729	0.6647	0.6743
warpar10p	0.6557	0.6533	0.6668
warppie10p	1.0000	1.0000	1.0000
waveform	0.8381	0.7570	0.7574
weather-related	0.9751	0.9695	0.9696
weight-lift	0.9585	0.9490	0.9493
white-clover	0.3302	0.1818	0.3162
wifi-loc	0.9950	0.9933	0.9934
wilt	0.8819	0.7635	0.7637
wine	1.0000	1.0000	1.0000
winequality-red	0.2661	0.2964	0.3015
winequality-white	0.2448	0.2170	0.2380
winnipeg10%	0.9787	0.9880	0.9880
wisc.bc	0.9817	0.9627	0.9633
yale	0.5981	0.5983	0.6086
yeast	0.3864	0.3813	0.3962
yeastCYT-POX	0.9047	0.7897	0.8078
yeastEXC	0.4932	0.0000	0.0000
yeastME1	0.8546	0.6605	0.7022
yeastME2	0.4879	0.0000	0.0000
zip	0.9432	0.9433	0.9434

Table 42: Detailed results for SVC

Dataset	F1-macro	Kappa	MCC
abalone	0.0902	0.0588	0.0641
abalone19	0.4982	0.0000	0.0000
accelerometer	0.4980	0.0000	0.0000
ads	0.9416	0.8761	0.8829
advanced-iot	1.0000	1.0000	1.0000
AID_1431	0.4772	0.0000	0.0000
AID_1431_KlekotaRothFingerprinter	0.4772	0.0000	0.0000
AID_1431_MACCSFingerprinter	0.4750	-0.0148	0.0000
AID_1878	0.4503	0.0000	0.0000
AID_602330	0.4894	0.0000	0.0000
AID_652128	0.3118	0.0000	0.0000
AID1284red	0.7333	0.3010	0.4209
AID1608Morered	0.4824	0.0000	0.0000
AID1608red	0.4850	0.0000	0.0000
AID362red	0.4965	0.0000	0.0000
AID456red	0.4992	0.0000	0.0000
AID721morered	0.4375	0.0000	0.0000
AID721red	0.4375	0.0000	0.0000
aids	0.8319	0.6424	0.6623
air_pollution	0.0826	0.0000	0.0000
alcohol	0.3980	0.4943	0.5250
all-aml	1.0000	1.0000	1.0000
anneal	0.9858	0.9759	0.9762
antivirus	1.0000	1.0000	1.0000
anuran-f-b	1.0000	1.0000	1.0000
anxiety	0.1030	-0.0150	0.0000
apple-quality	0.8677	0.7350	0.7355
arcene	0.6436	0.2857	0.2872
arrhythmia	0.3418	0.4074	0.4377
auction	0.7196	0.4199	0.4353
audiology	0.6528	0.7450	0.7519
audit-risk	0.9732	0.9465	0.9465
autism-adolescent	0.8036	0.6071	0.6071
autism-adult	0.9640	0.9253	0.9279
autism-child	0.8755	0.7212	0.7509
autos	0.7188	0.7279	0.7558
avila	0.9096	0.9838	0.9759
balance	0.6345	0.8480	0.8562
bankruptcy	1.0000	1.0000	1.0000
biodeg	0.8470	0.6927	0.6940
biomed	0.9507	0.8966	0.9014
body-perf	0.7010	0.5940	0.5954
brain-tumor	0.5005	0.0010	0.0010
breast-cancer	0.3913	-0.1290	0.0000
breast-cancer-ma	0.4500	-0.1000	0.0000
breast-tissue	0.6803	0.5644	0.5877
bridges	0.5312	0.3902	0.4224
cad	1.0000	1.0000	1.0000
cancer	1.0000	1.0000	1.0000
cancer-uae	0.2201	0.0000	0.0000
car-insurance	0.8028	0.6055	0.6056
cardiotocography-nsp	0.7840	0.6604	0.6690
cardiovascular	0.7431	0.4748	0.4732
cargo2k	1.0000	1.0000	1.0000
cars	0.6933	0.5900	0.5921
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Dataset	F1-macro	Kappa	MCC
cervical-B	0.7962	0.5764	0.5897
cervical-H	0.7964	0.4992	0.5767
cervical-S	0.8890	0.7514	0.7758
children-anemia	0.6496	0.8005	0.8009
churn	0.7045	0.3261	0.3909
cjs	1.0000	1.0000	1.0000
ckd	1.0000	1.0000	1.0000
clave	0.5925	0.7273	0.7314
cll_sub_111	0.2848	-0.0435	0.0000
cmc	0.4916	0.2540	0.2578
cnae-9	0.9259	0.9167	0.9168
codon_usage	0.7741	0.9144	0.9144
coil20	0.9933	0.9927	0.9927
college	0.8996	0.7911	0.7989
collins	0.4670	0.5780	0.5892
colon-tumor	0.7500	0.4000	0.5000
colposcopies-1	0.6947	0.3895	0.3895
colposcopies-2	0.6526	0.2770	0.3025
colposcopies-4	0.7339	0.3256	0.4410
colposcopies-5	0.4528	0.0000	0.0000
colposcopies-c	0.8054	0.5323	0.6022
column-2c	0.7354	0.4694	0.4708
column-3c	0.7081	0.6297	0.6332
coupon	0.7047	0.4053	0.4093
covtypeCD	0.9646	0.9282	0.9292
crabs	1.0000	1.0000	1.0000
crowdsourced	0.8789	0.9142	0.9146
cryotherapy	0.8163	0.5714	0.6325
cultivars	0.4587	0.5161	0.5252
cybersecurity	0.0502	0.0000	0.0000
cyclopentane	0.5791	0.1538	0.1581
cylinder-bands	0.6920	0.3730	0.3838
datatrieve	0.3810	-0.1404	0.0000
dbworld	1.0000	1.0000	1.0000
default	0.7076	0.3824	0.4163
dementia	1.0000	1.0000	1.0000
depressed	0.4542	0.0000	0.0000
dermatology	0.9429	0.9325	0.9325
desharnais	0.4333	0.2941	0.2941
df_final	0.7551	0.6049	0.6345
DIA	0.6918	0.1875	0.3216
diagnosis	1.0000	1.0000	1.0000
diamonds	0.9629	0.9538	0.9550
diamonds_all	0.7791	0.6948	0.6963
dishonest	1.0000	1.0000	1.0000
dlbcl-nih	0.3684	0.0000	0.0000
dlbcl-stanford	0.7059	0.2857	0.4082
drebin	0.9688	0.9371	0.9375
dropout	0.6748	0.6044	0.6144
ecoli	0.6675	0.7491	0.7551
ecoliCP-IM	1.0000	1.0000	1.0000
ecoliM	0.7753	0.5438	0.5502
ecoliMU	0.6333	0.2667	0.2667
ecoliOM	0.7339	0.4677	0.4677
ecommerce	0.2144	0.0327	0.0380
euthyroid	0.7801	0.5030	0.5494
fakenews	0.5324	0.0649	0.0649
fbis-wc	0.6941	0.7522	0.7569
Continued on next page			

Dataset	F1-macro	Kappa	MCC
finance	0.9431	0.8798	0.8862
financial-risk	0.5420	0.7423	0.7447
flags	0.4205	0.6154	0.6239
forest	0.8815	0.8661	0.8731
gas	0.9905	0.9878	0.9878
gastrointestinal	0.8252	0.6735	0.7131
gender	0.3727	0.1272	0.1353
german	0.6799	0.2689	0.3451
gestures	0.8577	0.8025	0.8066
gina	0.9312	0.8615	0.8624
gisette	0.9700	0.9400	0.9401
glass	0.6952	0.5922	0.6155
glass-g2	0.5333	0.0588	0.0667
glassBWFP	0.8108	0.5532	0.6183
glassBWNFP	0.7237	0.4444	0.4472
glassContainers	0.4762	0.0000	0.0000
glassNW	0.8688	0.7375	0.7375
glassTableware	0.4884	0.0000	0.0000
GlaucomaM	0.6833	0.3667	0.3667
gli.85	0.5749	0.1429	0.1491
glioma	0.5333	0.4444	0.5774
glioma-grade	0.8845	0.7610	0.7689
green	0.6098	0.2105	0.2182
gsalc	0.8602	0.7353	0.7693
haberman	0.6058	0.1892	0.2070
hapt	0.8501	0.9513	0.9514
har	0.9763	0.9723	0.9724
health-activity	0.2175	0.0000	0.0000
heart	0.8914	0.7596	0.7826
heart-c	0.9067	0.7964	0.8134
heart-failure	0.9509	0.9013	0.9018
heart-quantum	0.8783	0.7541	0.7566
hepatitis	0.5000	0.0000	0.0000
higher	0.0455	-0.0370	0.0000
hinselmann	0.4444	0.0000	0.0000
hitters	0.9373	0.8745	0.8745
hiv1-proteasa	0.7903	0.5518	0.5769
hiva	0.4897	-0.0084	0.0000
horse	0.2222	-0.0452	0.0000
hotel-reservartions	0.8514	0.7171	0.7222
hr	0.4623	-0.0069	0.0000
htru2	0.9277	0.8487	0.8551
hypothyroid	0.6014	0.6491	0.6751
immuno-therapy	0.4000	-0.1739	0.0000
ionosphere	0.9337	0.8674	0.8674
iris	1.0000	1.0000	1.0000
irish	1.0000	1.0000	1.0000
isolet	0.9457	0.9426	0.9427
jm1	0.6357	0.0431	0.1350
javowels	0.9855	0.9841	0.9841
kc1-class-level-numericdefect	0.1636	0.0000	0.0000
kc1-class-level-top5percentDF	0.4828	0.0000	0.0000
kc2	0.6059	0.2020	0.2096
kidney	0.1798	0.0000	0.0000
kidney-disease	0.9467	0.8933	0.8933
labor	1.0000	1.0000	1.0000
leaf	0.6885	0.6618	0.6734
led24	0.6202	0.6011	0.6081
Continued on next page			

Dataset	F1-macro	Kappa	MCC
lenses	0.5714	0.5000	0.6124
letter	0.9460	0.9438	0.9439
linkage1%	0.8796	0.7171	0.7250
loan	0.9226	0.8453	0.8453
lrs	0.6260	0.8174	0.8256
lung_discrete	0.7652	0.8367	0.8549
lymphography	0.4934	0.4510	0.4560
lymphoma2	1.0000	1.0000	1.0000
machine-failure	0.9033	0.8050	0.8067
magic04	0.8322	0.6603	0.6644
malware	1.0000	1.0000	1.0000
mammography	0.8721	0.7313	0.7443
marketing	0.6818	0.3332	0.3565
mba	0.3041	0.0000	0.0000
mental-disorders	0.8654	0.7778	0.8003
messidor	0.6792	0.3558	0.3585
meter-A	0.8873	0.7500	0.7746
meter-B	0.8056	0.6538	0.6538
meter-C	0.9330	0.9241	0.9280
meter-D	0.8730	0.8442	0.8480
mfeat-fac	0.9753	0.9722	0.9723
mfeat-fou	0.8448	0.8278	0.8283
mfeat-kar	0.9806	0.9778	0.9779
mfeat-mor	0.7267	0.7167	0.7258
mfeat-pix	0.9807	0.9778	0.9779
mfeat-zer	0.8454	0.8500	0.8609
mice-prot	1.0000	1.0000	1.0000
milk	1.0000	1.0000	1.0000
mines	0.6071	0.5216	0.5228
mobile	0.8327	0.8149	0.8154
monks-1	0.8849	0.7442	0.7698
monks-3	0.9642	0.9285	0.9285
mushroom	1.0000	1.0000	1.0000
music	0.5436	0.4081	0.4221
MUT_ci300400a_cdk_ECFP2	0.7755	0.5509	0.5509
MUT_ci300400a_cdk_ECFP4	0.7802	0.5603	0.5604
MUT_ci300400a_cdk_ECFP6	0.7477	0.4940	0.4955
MUT_ci300400a_cdk_ESTATE	0.7303	0.4577	0.4605
MUT_ci300400a_cdk_FCFP2	0.8167	0.6330	0.6335
MUT_ci300400a_cdk_FCFP4	0.7808	0.5613	0.5616
MUT_ci300400a_cdk_FCFP6	0.7709	0.5414	0.5417
MUT_ci300400a_cdk_MACCS	0.7824	0.5630	0.5647
MUT_ci300400a_cdk_PUBCHEM	0.7861	0.5696	0.5722
MUT_ci300400a_rdkit_descriptors	0.7981	0.5961	0.5961
myocardial	0.2932	0.3396	0.4530
naticusdroid	0.9603	0.9203	0.9205
nci9	0.7895	0.8000	0.8281
neo	0.6873	0.1883	0.2912
new-thyroid	0.9318	0.8871	0.8941
new-thyroidT	0.9211	0.8293	0.8416
NHANES_age_prediction	0.9405	0.8776	0.8809
nursery	0.9767	0.9898	0.9898
obesity	0.8836	0.8671	0.8679
obs	0.9934	0.9862	0.9864
oh0-wc	0.6446	0.6468	0.6508
oh10-wc	0.6224	0.6078	0.6110
oh15-wc	0.5180	0.5287	0.5313
oh5-wc	0.7237	0.6640	0.6672
Continued on next page			

Dataset	F1-macro	Kappa	MCC
olive	0.8950	0.8897	0.8945
optdigits	0.9846	0.9822	0.9822
orlraws10P	1.0000	1.0000	1.0000
ozone1hr	0.4909	0.0000	0.0000
p53-mutants10%	0.4992	0.0000	0.0000
parkinson	0.9482	0.8959	0.8964
pc1	0.4813	0.0000	0.0000
pcmac	0.5397	0.0378	0.0657
pendigits	0.9918	0.9909	0.9909
period-10f	0.5950	0.1818	0.1890
persistence	0.7679	0.5191	0.5352
pet-adoption	0.8616	0.7200	0.7232
phishing	0.9237	0.8470	0.8475
pima	0.7042	0.3746	0.4063
pirvision	0.9938	0.9723	0.9866
placement	0.7866	0.5698	0.5732
plrx	0.4194	0.0000	0.0000
polya	0.7620	0.5136	0.5235
post-operative	0.4000	0.0000	0.0000
pred-tox_mutagen_ref-desc	0.6574	0.2941	0.3143
prestige	0.8889	0.8302	0.8462
primary-tumor	0.4003	0.5536	0.5669
profb	0.4018	0.0000	0.0000
promoters	0.7143	0.2857	0.4082
pulsar	0.9303	0.8521	0.8603
raisin	0.8924	0.7778	0.7848
rejafada	0.4910	0.0000	0.0000
relathe	0.9791	0.9573	0.9582
rice	0.9856	0.9711	0.9712
rocket	0.5860	0.1701	0.1719
satimage	0.8929	0.8864	0.8876
scadi	0.6600	0.6316	0.6667
schiller	0.4375	0.0000	0.0000
sclerosis	0.9635	0.9244	0.9270
secom	0.4834	0.0000	0.0000
seeds	0.9553	0.9286	0.9317
segment	0.9380	0.9190	0.9191
segmentation	0.8132	0.6238	0.6263
segmentO	0.9913	0.9825	0.9827
seismic	0.5789	0.1334	0.1480
sens-2-gram	0.4648	0.0000	0.0000
sens-3-gram	0.4648	0.0000	0.0000
shoppers	0.7239	0.3920	0.4360
sick	0.7126	0.3935	0.4170
sirtuin6	0.9083	0.8000	0.8165
smarket	0.9361	0.8718	0.8723
smk.can_187	0.5748	0.1461	0.1495
smoking	0.7293	0.4694	0.4653
soil_pollution	0.0685	0.0000	0.0000
solar-flare	0.5940	0.6754	0.6809
sonar	0.5503	0.1000	0.1005
soybean	0.9608	0.9517	0.9526
spam-detection	0.8395	0.6725	0.6782
spambase	0.8880	0.7736	0.7760
spect	0.6640	0.3243	0.3273
spectf	0.7807	0.5505	0.5610
spectrometer	0.3983	0.5196	0.5267
squash-unstored	1.0000	1.0000	1.0000
Continued on next page			

Dataset	F1-macro	Kappa	MCC
startup	1.0000	1.0000	1.0000
steel_industry	0.8308	0.7759	0.7759
stellar	0.9570	0.9523	0.9596
stock	0.7441	0.4247	0.4767
stockb	0.9913	0.9868	0.9869
streaming	0.8887	0.7773	0.7774
stress	1.0000	1.0000	1.0000
student-habits	0.1101	0.0000	0.0000
student-lifestyle	0.3429	0.3728	0.3801
student-weekend	0.1655	0.0815	0.1212
student-workday	0.1651	0.0000	0.0000
studentap	0.4825	0.1727	0.1794
tae	0.4722	0.2000	0.2013
telco-churn	0.8584	0.7106	0.7165
texture	0.9947	0.9940	0.9940
theorem	1.0000	1.0000	1.0000
thoracic	0.4598	0.0000	0.0000
Thyroid_Diff	0.9365	0.8648	0.8728
titanic	0.7833	0.5545	0.5660
tourist	0.2894	0.4146	0.4679
trains	0.0000	-1.0000	0.0000
transfusion	0.5614	0.1228	0.1228
tuandromd	0.9720	0.9432	0.9440
turkish	0.8250	0.7667	0.7667
ur3_cobotops_grip	0.4917	0.0000	0.0000
ur3_cobotops_stop	0.4906	0.0000	0.0000
urban	0.8223	0.7713	0.7767
vehicle	0.7678	0.7137	0.7225
vote	0.9307	0.8605	0.8615
vowel	0.6349	0.5778	0.5843
wap-wc	0.4811	0.6493	0.6515
warpar10p	0.8330	0.8267	0.8379
warppie10p	1.0000	1.0000	1.0000
waveform	0.8504	0.7750	0.7758
weather-related	0.9655	0.9607	0.9609
white-clover	0.6250	0.2500	0.2500
wifi-loc	0.9950	0.9933	0.9934
wilt	0.8524	0.6552	0.6980
wine	1.0000	1.0000	1.0000
winequality-red	0.2959	0.3687	0.3764
winequality-white	0.3321	0.3560	0.3707
wisc.bc	0.9813	0.9619	0.9626
yale	0.3733	0.4000	0.4176
yeast	0.3973	0.4006	0.4081
yeastCYT-POX	0.9047	0.7897	0.8078
yeastEXC	0.6366	0.2688	0.2717
yeastME1	0.4932	0.0000	0.0000
yeastME2	0.4879	0.0000	0.0000
zip	0.9466	0.9446	0.9446

Table 43: Detailed results for SVM

Dataset	F1-macro	Kappa	MCC
abalone	0.0814	0.0805	0.0855
abalone19	0.4982	0.0000	0.0000
accelerometer	0.6841	0.2309	0.3150
ads	0.9480	0.8930	0.8959
adult	0.7747	0.5359	0.5481
advanced-iot	1.0000	1.0000	1.0000
AID_1431	0.4772	0.0000	0.0000
AID_1431_KlekotaRothFingerprinter	0.4772	0.0000	0.0000
AID_1431_MACCSFingerprinter	0.4772	0.0000	0.0000
AID_1878	0.4503	0.0000	0.0000
AID_602330	0.4894	0.0000	0.0000
AID_652128	0.3118	0.0000	0.0000
AID1284red	0.4627	0.0000	0.0000
AID1608Morered	0.4824	0.0000	0.0000
AID1608red	0.4850	0.0000	0.0000
AID362red	0.4965	0.0000	0.0000
AID373AID439red	0.5000	0.0000	0.0000
AID373red	0.4997	0.0000	0.0000
AID456red	0.4992	0.0000	0.0000
AID604	0.9698	0.9392	0.9396
AID604AID644_AllRed	0.4997	0.0000	0.0000
AID687AID721red	0.4998	0.0000	0.0000
AID687red	0.4992	0.0000	0.0000
AID688red	0.4977	0.0000	0.0000
AID721morered	0.4375	0.0000	0.0000
AID721red	0.4375	0.0000	0.0000
AID746AID1284red	0.4997	-0.0003	0.0000
AID746red	0.6782	0.0537	0.1662
aids	0.7898	0.5692	0.5787
air_pollution	0.0826	0.0000	0.0000
alcohol	0.4266	0.5482	0.5819
all-aml	1.0000	1.0000	1.0000
anneal	1.0000	1.0000	1.0000
antivirus	1.0000	1.0000	1.0000
anuran-f-b	1.0000	1.0000	1.0000
anxiety	0.0825	-0.0226	0.0000
apple-quality	0.9125	0.8250	0.8251
aps-failure	0.8877	0.7705	0.7749
arabidopsis1%	0.7285	0.2565	0.3836
arcene	0.7917	0.5833	0.5833
arrhythmia	0.3976	0.5038	0.5263
auction	0.8014	0.5781	0.5993
audiology	0.2225	0.6414	0.6535
audit-risk	0.9736	0.9459	0.9473
autism-adolescent	0.9141	0.8136	0.8281
autism-adult	1.0000	1.0000	1.0000
autism-child	1.0000	1.0000	1.0000
autos	0.7526	0.8667	0.8728
avila	0.8527	0.7969	0.7998
balance	0.8001	0.8553	0.8557
bank	0.7460	0.4774	0.4892
bankruptcy	1.0000	1.0000	1.0000
bio	0.9423	0.8615	0.8582
biodeg	0.8788	0.7577	0.7577
biomed	1.0000	1.0000	1.0000
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Dataset	F1-macro	Kappa	MCC
bitcoin10%	0.0904	0.0000	0.0000
body-perf	0.7009	0.6020	0.6027
brain-tumor	0.3327	0.0000	0.0000
breast-cancer	0.7325	0.3226	0.4385
breast-cancer-ma	0.5345	0.0678	0.0690
breast-tissue	0.5346	0.5510	0.5687
bridges	0.5503	0.6774	0.7246
bub12at310k-hg16-17	0.6976	0.2772	0.3451
cad	1.0000	1.0000	1.0000
cancer	1.0000	1.0000	1.0000
cancer-uae	0.2201	0.0000	0.0000
car-insurance	0.8045	0.6086	0.6090
cardiotocography-nsp	0.8723	0.8184	0.8266
cardiovascular	0.7326	0.4386	0.4412
cargo2k	1.0000	1.0000	1.0000
cars	0.6250	0.5073	0.5184
ccds10%	0.4866	0.0000	0.0000
cdc_diabetes	0.3020	0.0000	0.0000
census	0.7320	0.4253	0.4878
cervical-B	0.6408	0.2229	0.2606
cervical-H	0.7640	0.3886	0.4911
cervical-S	0.8890	0.7514	0.7758
children-anemia	0.8866	0.8404	0.8405
chrom19	0.9342	0.8880	0.8905
chrom211%	0.4998	0.0000	0.0000
churn	0.7371	0.4401	0.4689
cjs	1.0000	1.0000	1.0000
ckd	1.0000	1.0000	1.0000
clave	0.7959	0.7936	0.7937
cll_sub_111	0.7222	0.4545	0.4545
cmc	0.4691	0.2093	0.2123
cnae-9	0.9725	0.9688	0.9689
codon_usage	0.8231	0.9404	0.9404
coil20	1.0000	1.0000	1.0000
college	0.9018	0.8036	0.8036
collins	0.5432	0.6471	0.6529
colon-tumor	0.7500	0.4000	0.5000
colposcopies-1	0.5519	0.0584	0.0889
colposcopies-2	0.6915	0.2162	0.3482
colposcopies-4	0.4200	0.0000	0.0000
colposcopies-5	0.4528	0.0000	0.0000
colposcopies-c	0.6736	0.2984	0.3376
column-2c	0.8931	0.7842	0.7863
column-3c	0.7395	0.6853	0.6865
connect-4	1.0000	1.0000	1.0000
coupon	0.7538	0.5059	0.5075
covtype	0.9305	0.9279	0.9323
covtypeCD	0.9863	0.9725	0.9725
covtypeT	0.9389	0.8776	0.8778
crabs	1.0000	1.0000	1.0000
creditcard_trans	0.8932	0.7865	0.7818
crowdsourced	0.8821	0.9228	0.9229
cryotherapy	0.8163	0.5714	0.6325
cultivars	0.5169	0.6777	0.6819
cybersecurity	0.0500	0.0000	0.0000
cyclopentane	0.6998	0.3793	0.3990
cylinder-bands	0.7709	0.5352	0.5417
datatrieve	0.4800	0.0000	0.0000
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Dataset	F1-macro	Kappa	MCC
dating	0.0988	-0.0010	0.0000
dbworld	1.0000	1.0000	1.0000
default	0.7065	0.3655	0.4045
dementia	1.0000	1.0000	1.0000
deposit	0.7340	0.4469	0.4637
depressed	0.4542	0.0000	0.0000
dermatology	0.9429	0.9325	0.9325
desharnais	0.3366	0.0303	0.0313
df_final	0.7616	0.6098	0.6258
DIA	0.7692	0.4286	0.5222
diabetes-100k	0.8760	0.7330	0.7502
diagnosis	1.0000	1.0000	1.0000
diamonds	1.0000	1.0000	1.0000
diamonds_all	0.5600	0.5061	0.5168
dishonest	1.0000	1.0000	1.0000
dlbcl-nih	0.4701	-0.0588	0.0000
dlbcl-stanford	1.0000	1.0000	1.0000
dna0.1%	0.4953	0.0000	0.0000
dota2	0.5579	0.1153	0.1254
drebin	0.9935	0.9869	0.9869
dropout	0.6749	0.5973	0.6032
ecoli	0.5460	0.7954	0.8003
ecoliCP-IM	1.0000	1.0000	1.0000
ecoliM	0.7525	0.5050	0.5050
ecoliMU	0.8167	0.6333	0.6333
ecoliOM	0.8514	0.6526	0.6960
ecommerce	0.2145	-0.0056	0.0000
euthyroid	0.8855	0.7651	0.7705
fakenews	0.5304	0.0496	0.0598
fbis-wc	0.7939	0.8045	0.8089
finance	0.9017	0.8028	0.8034
financial-risk	0.6894	0.7964	0.7971
flags	0.2643	0.3610	0.3684
forest	0.9006	0.8941	0.8950
gas	0.9958	0.9948	0.9948
gastrointestinal	0.7955	0.7019	0.7063
gender	0.3641	0.0981	0.1133
german	0.6750	0.2802	0.3398
gestures	0.9201	0.8927	0.8928
gina	0.9452	0.8904	0.8904
gisette	0.9743	0.9486	0.9486
glass	0.7265	0.7246	0.7328
glass-g2	0.7333	0.4667	0.4667
glassBWFP	0.8568	0.6736	0.7126
glassBWNFP	0.7771	0.5385	0.5534
glassContainers	0.8483	0.6452	0.6901
glassNW	0.8688	0.7375	0.7375
glassTableware	0.4884	0.0000	0.0000
GlaucomaM	0.7389	0.4751	0.4778
gli_85	1.0000	1.0000	1.0000
glioma	0.6250	0.7059	0.7500
glioma-grade	0.8845	0.7610	0.7689
green	0.5238	0.0476	0.0476
gsalc	0.9167	0.8657	0.8788
haberman	0.4231	0.0000	0.0000
hapt	0.9158	0.9687	0.9687
har	0.9850	0.9793	0.9796
harth10%	0.6256	0.8399	0.8327
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Dataset	F1-macro	Kappa	MCC
health-activity	0.2175	0.0000	0.0000
heart	0.7699	0.5398	0.5398
heart-c	0.8683	0.7297	0.7365
heart-failure	0.9556	0.9107	0.9112
heart-quantum	0.9606	0.9180	0.9211
hepatitis	0.7761	0.4444	0.5345
higher	0.1721	0.1083	0.1555
hinselmann	0.4444	0.0000	0.0000
hitters	0.9373	0.8745	0.8745
hiv1-proteasa	0.8731	0.7443	0.7461
hiva	0.6916	0.1211	0.2539
horse	0.4725	0.2909	0.3628
hotel-reservartions	0.8494	0.6962	0.6987
hr	0.4633	0.0000	0.0000
ht-sensor	0.9769	0.9765	0.9551
htru2	0.9298	0.8563	0.8595
hypothyroid	0.5724	0.5609	0.5835
immuno-therapy	0.4375	0.0000	0.0000
ionosphere	0.9686	0.9353	0.9373
iris	1.0000	1.0000	1.0000
irish	1.0000	1.0000	1.0000
isolet	0.9469	0.9439	0.9440
jm1	0.6064	0.0848	0.1542
jvowels	0.9975	0.9977	0.9977
kc1-class-level-numericdefect	0.0317	0.0233	0.0275
kc1-class-level-top5percentDF	0.4643	-0.0714	0.0000
kc2	0.6594	0.2798	0.3102
kdc-4007	0.7320	0.8021	0.8036
kddcup991%	0.4517	0.9966	0.9966
kidney	0.1778	0.0000	0.0000
kidney-disease	1.0000	1.0000	1.0000
la2s-wc	0.8361	0.8169	0.8170
labor	0.8537	0.6667	0.7071
leaf	0.2690	0.4807	0.4954
led24	0.6532	0.6078	0.6182
lenses	0.1667	0.0000	0.0000
letter	0.9809	0.9802	0.9802
linkage1%	1.0000	1.0000	1.0000
loan	0.9425	0.8846	0.8849
lrs	0.3868	0.6391	0.6593
lung_discrete	0.7143	1.0000	1.0000
lymphography	0.6830	0.7500	0.7779
lymphoma2	0.6667	1.0000	1.0000
machine-failure	0.8916	0.7825	0.7832
magic04	0.8658	0.7264	0.7316
malware	1.0000	1.0000	1.0000
mammography	0.8327	0.6654	0.6654
marketing	0.7386	0.4169	0.4651
mba	0.3484	0.0283	0.0383
mental-disorders	1.0000	1.0000	1.0000
messidor	0.7494	0.4951	0.4988
meter-A	0.7241	0.3333	0.4472
meter-B	1.0000	1.0000	1.0000
meter-C	0.9571	0.9227	0.9268
meter-D	0.8730	0.8442	0.8480
mfeat-fac	0.9756	0.9722	0.9724
mfeat-fou	0.8519	0.8333	0.8338
mfeat-kar	0.9810	0.9778	0.9779
Continued on next page			

Dataset	F1-macro	Kappa	MCC
mfeat-mor	0.7608	0.7278	0.7303
mfeat-pix	0.9806	0.9778	0.9779
mfeat-zer	0.9172	0.9056	0.9059
mice-prot	1.0000	1.0000	1.0000
milk	1.0000	1.0000	1.0000
mines	0.7630	0.7047	0.7093
mobile	0.8637	0.8540	0.8544
monks-1	0.9457	0.8908	0.8914
monks-3	0.9642	0.9285	0.9285
mushroom	1.0000	1.0000	1.0000
music	0.5237	0.4137	0.4248
MUT_ci300400a_cdk_ECFP2	0.8371	0.6743	0.6743
MUT_ci300400a_cdk_ECFP4	0.8547	0.7093	0.7093
MUT_ci300400a_cdk_ECFP6	0.8144	0.6281	0.6287
MUT_ci300400a_cdk_ESTATE	0.7770	0.5497	0.5539
MUT_ci300400a_cdk_EXTENDED	0.8328	0.6651	0.6656
MUT_ci300400a_cdk_FCFP2	0.8439	0.6868	0.6878
MUT_ci300400a_cdk_FCFP4	0.8329	0.6654	0.6657
MUT_ci300400a_cdk_FCFP6	0.8197	0.6394	0.6395
MUT_ci300400a_cdk_MACCS	0.8355	0.6709	0.6710
MUT_ci300400a_cdk_PUBCHEM	0.8664	0.7324	0.7328
MUT_ci300400a_cdk_STANDARD	0.8185	0.6368	0.6369
MUT_ci300400a_rdkit_descriptors	0.8483	0.6963	0.6966
myocardial	0.3102	0.3867	0.4911
naticusdroid	0.9703	0.9407	0.9407
nci9	0.4148	0.6129	0.6556
ncRNA10%	0.2994	0.6383	0.6555
neo	0.4724	0.0000	0.0000
new-thyroid	1.0000	1.0000	1.0000
new-thyroidT	1.0000	1.0000	1.0000
newspop	0.6569	0.3125	0.3138
NHANES_age_prediction	1.0000	1.0000	1.0000
nomao	0.9525	0.9050	0.9051
nursery	0.8000	1.0000	1.0000
obesity	0.9614	0.9557	0.9558
obs	1.0000	1.0000	1.0000
oh0-wc	0.8781	0.8535	0.8562
oh10-wc	0.7364	0.7298	0.7305
oh15-wc	0.6656	0.6451	0.6473
oh5-wc	0.7788	0.7654	0.7665
olive	0.9385	0.9343	0.9362
optdigits	0.9862	0.9842	0.9842
orlraws10P	1.0000	1.0000	1.0000
ozone1hr	0.4909	0.0000	0.0000
p53-mutants10%	0.4984	-0.0032	0.0000
parkinson	0.9743	0.9484	0.9486
particle	0.8702	0.7406	0.7300
pc1	0.7116	0.2096	0.3421
pcmac	0.3681	0.0000	0.0000
pediatric-leukemia	0.7768	0.7460	0.7510
pendigits	0.9972	0.9970	0.9970
period-10f	0.5950	0.1818	0.1890
persistence	0.8011	0.5994	0.6021
personalities	0.9528	0.9628	0.9373
pet-adoption	0.9263	0.8477	0.8525
phishing	0.9743	0.9484	0.9486
PhiUSIL10%	0.9992	1.0000	0.9972
phy	0.7152	0.4303	0.4304
Continued on next page			

Dataset	F1-macro	Kappa	MCC
pima	0.6891	0.3407	0.3753
pirvision	0.9977	0.9959	0.9959
placement	0.7906	0.5813	0.5813
plx	0.4194	0.0000	0.0000
polya	0.7736	0.5437	0.5471
popularity	0.5291	0.2065	0.2364
post-operative	0.2667	0.0000	0.0000
postures	0.9916	0.9896	0.9896
pred-tox_mutagen_ref-desc	0.6847	0.3529	0.3693
prestige	0.8889	0.8302	0.8462
primary-tumor	0.1744	0.3628	0.3900
processed	1.0000	0.9959	1.0000
profb	0.6941	0.3738	0.3869
promoters	1.0000	1.0000	1.0000
puc-rio	0.9907	0.9916	0.9916
pufs-1281%	0.5013	0.0176	0.0178
pufs-6410%	0.5098	0.0061	0.0073
pulsar	0.9407	0.8785	0.8814
raisin	0.9115	0.8222	0.8230
rejafada	0.8636	0.6856	0.7222
relathe	1.0000	1.0000	1.0000
rice	0.9873	0.9744	0.9745
rocket	0.6404	0.2777	0.2808
RT_IOT2022	0.9528	0.9882	0.9882
satimage	0.9138	0.9041	0.9043
scadi	0.5333	0.8056	0.8289
schiller	0.4375	0.0000	0.0000
sclerosis	1.0000	1.0000	1.0000
secom	0.4834	0.0000	0.0000
secondary_mushroom	0.9998	0.9997	0.9997
seeds	0.9553	0.9286	0.9317
segment	0.9497	0.9342	0.9345
segmentation	0.8065	0.6039	0.6128
segmentO	1.0000	1.0000	1.0000
seismic	0.4830	0.0000	0.0000
sens-2-gram	0.6559	0.1245	0.2283
sens-3-gram	0.6487	0.1479	0.2361
sens-4-gram	0.5895	0.0994	0.1442
sensorless	0.9752	0.9727	0.9727
shoppers	0.7580	0.4721	0.5085
sick	0.8286	0.6141	0.6507
sirtuin6	1.0000	1.0000	1.0000
smarket	0.9921	0.9840	0.9841
smk_can_187	0.7889	0.5778	0.5778
smoking	0.7382	0.4699	0.4665
soil_pollution	0.1599	-0.0025	0.0000
solar-flare	0.5768	0.6747	0.6796
sonar	0.7513	0.5000	0.5025
soybean	1.0000	1.0000	1.0000
spam-detection	0.8562	0.7100	0.7122
spambase	0.9018	0.8025	0.8035
spect	0.6014	0.1562	0.1890
spectf	0.8606	0.6818	0.7192
spectrometer	0.2769	0.6604	0.6657
squash-unstored	0.5556	0.6154	0.6667
startup	1.0000	1.0000	1.0000
steel_industry	0.8435	0.7949	0.7951
stellar	0.9611	0.9490	0.9446
Continued on next page			

Dataset	F1-macro	Kappa	MCC
stock	0.8069	0.5931	0.6116
stockb	1.0000	1.0000	1.0000
streaming	0.9131	0.8262	0.8262
stress	1.0000	1.0000	1.0000
student-depression	0.8301	0.6590	0.6602
student-habits	0.1713	0.0035	0.0059
student-lifestyle	0.2750	0.3476	0.3634
student-weekend	0.1809	0.1003	0.1154
student-workday	0.1651	0.0000	0.0000
studentap	0.3945	0.2500	0.2772
swarm_aligned	1.0000	1.0000	1.0000
swarm_flocking	1.0000	1.0000	1.0000
swarm_grouped	1.0000	1.0000	1.0000
tae	0.5344	0.2000	0.2200
telco-churn	0.8686	0.7365	0.7372
texture	0.9982	0.9980	0.9980
theorem	1.0000	1.0000	1.0000
thoracic	0.4598	0.0000	0.0000
Thyroid_Diff	0.9365	0.8648	0.8728
tis	0.8834	0.7665	0.7667
titanic	0.7934	0.5163	0.5813
tourist	0.4375	0.6364	0.6848
trains	0.3333	0.0000	0.0000
transfusion	0.5910	0.1749	0.1805
tuandromd	0.9825	0.9651	0.9651
turkish	0.8541	0.8000	0.8047
tvnews	0.9630	0.9269	0.9121
ur3_cobotops_grip	0.7936	0.5202	0.5732
ur3_cobotops_stop	0.6492	0.1781	0.2478
urban	0.8303	0.7893	0.7935
ustilago10%	0.4944	0.0000	0.0000
vehicle	0.7941	0.7590	0.7616
vote	0.9307	0.8605	0.8615
vowel	0.7228	0.6556	0.6633
wap-wc	0.6650	0.7865	0.7874
warpar10p	1.0000	1.0000	1.0000
warppie10p	1.0000	1.0000	1.0000
waveform	0.8500	0.7750	0.7751
weather-related	0.9785	0.9738	0.9739
weight-lift	0.9842	0.9780	0.9782
white-clover	0.1250	-0.5000	0.0000
wifi-loc	0.9950	0.9933	0.9934
wilt	0.9582	0.9156	0.9165
wine	1.0000	1.0000	1.0000
winequality-red	0.3567	0.5170	0.5215
winequality-white	0.3996	0.4673	0.4777
winnipeg10%	0.9975	0.9961	0.9961
wisc.bc	0.9817	0.9627	0.9633
yale	0.7467	0.7983	0.8086
yeast	0.3307	0.3885	0.3932
yeastCYT-POX	0.9047	0.7897	0.8078
yeastEXC	0.4897	-0.0183	0.0000
yeastME1	0.7662	0.3934	0.4949
yeastME2	0.6808	0.3410	0.3554
zip	0.9627	0.9614	0.9615

Table 44: Detailed results for VBCARD

Dataset	F1-macro	Kappa	MCC
abalone	0.0714	0.0834	0.0869
abalone19	0.4982	0.0000	0.0000
accelerometer	0.5338	0.0275	0.0443
ads	0.9213	0.8297	0.8420
adult	0.7754	0.5451	0.5503
advanced-iot	1.0000	1.0000	1.0000
AID_1431	0.4772	0.0000	0.0000
AID_1431_KlekotaRothFingerprinter	0.4772	0.0000	0.0000
AID_1431_MACCSFingerprinter	0.4772	0.0000	0.0000
AID_1878	0.6898	0.1616	0.2965
AID_602330	0.4894	0.0000	0.0000
AID_652128	0.3118	0.0000	0.0000
AID1284red	0.4627	0.0000	0.0000
AID1608Morered	0.4824	0.0000	0.0000
AID1608red	0.4850	0.0000	0.0000
AID362red	0.4965	0.0000	0.0000
AID373AID439red	0.5000	0.0000	0.0000
AID373red	0.4997	0.0000	0.0000
AID456red	0.4992	0.0000	0.0000
AID604	0.4991	0.0000	0.0000
AID604AID644_AllRed	0.4997	0.0000	0.0000
AID687AID721red	0.4998	0.0000	0.0000
AID687red	0.4992	0.0000	0.0000
AID688red	0.4977	0.0000	0.0000
AID721morered	0.4375	0.0000	0.0000
AID721red	0.4375	0.0000	0.0000
AID746AID1284red	0.4997	0.0000	0.0000
AID746red	0.4985	0.0000	0.0000
aids	0.7730	0.5280	0.5443
air_pollution	0.0826	0.0000	0.0000
alcohol	0.2986	0.3933	0.4093
all-aml	1.0000	1.0000	1.0000
anneal	0.9872	0.9766	0.9769
antivirus	1.0000	1.0000	1.0000
anuran-f-b	0.4979	0.0000	0.0000
anxiety	0.0916	-0.0159	0.0000
apple-quality	0.7034	0.4050	0.4068
aps-failure	0.8501	0.6923	0.6991
arabidopsis1%	0.6519	0.1320	0.2205
arcene	0.6284	0.2553	0.2568
arrhythmia	0.7150	0.6702	0.6821
auction	0.7385	0.4276	0.4667
audiology	0.4010	0.8510	0.8565
audit-risk	0.9736	0.9459	0.9473
autism-adolescent	1.0000	1.0000	1.0000
autism-adult	1.0000	1.0000	1.0000
autism-child	1.0000	1.0000	1.0000
autos	0.7275	0.8000	0.8113
avila	0.3049	0.2873	0.3640
balance	0.6007	0.7578	0.7649
bank	0.7496	0.4870	0.4969
bankruptcy	1.0000	1.0000	1.0000
bio	0.9069	0.8021	0.8128
biodeg	0.8587	0.7173	0.7173
biomed	0.9507	0.8966	0.9014
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Dataset	F1-macro	Kappa	MCC
bitcoin10%	0.0903	0.0000	0.0000
body-perf	0.5785	0.4517	0.4601
brain-tumor	0.5054	0.0108	0.0108
breast-cancer	0.6633	0.3099	0.3244
breast-cancer-ma	0.4248	-0.1379	0.0000
breast-tissue	0.7179	0.6733	0.6869
bridges	0.6767	0.8571	0.8697
bub12at310k-hg16-17	0.6325	0.0074	0.0539
cad	1.0000	1.0000	1.0000
cancer	0.9841	0.9677	0.9682
cancer-uae	0.2201	0.0000	0.0000
car-insurance	0.8116	0.6221	0.6232
cardiotocography-nsp	0.8269	0.7081	0.7094
cardiovascular	0.7203	0.4392	0.4407
cargo2k	1.0000	1.0000	1.0000
cars	0.5906	0.4533	0.4549
ccds10%	0.6886	0.3327	0.3634
cdc_diabetes	0.4249	0.2041	0.2509
census	0.7613	0.4907	0.5158
cervical-B	0.8563	0.7088	0.7122
cervical-H	0.4881	0.0000	0.0000
cervical-S	0.8890	0.7514	0.7758
children-anemia	0.6290	0.7477	0.7627
chrom19	0.6297	0.0244	0.0909
chrom211%	0.4998	0.0000	0.0000
churn	0.6546	0.2408	0.2911
cjs	1.0000	1.0000	1.0000
ckd	1.0000	1.0000	1.0000
clave	0.4942	0.6232	0.6437
cll_sub_111	0.7222	0.4545	0.4545
cmc	0.4428	0.1645	0.1669
cnae-9	0.9551	0.9479	0.9483
codon_usage	0.6831	0.8314	0.8321
coil20	0.9874	0.9854	0.9855
college	0.8736	0.7457	0.7472
collins	0.6379	0.6646	0.6826
colon-tumor	0.7500	0.4000	0.5000
colposcopies-1	0.5196	0.0387	0.0392
colposcopies-2	0.5521	0.0807	0.0995
colposcopies-4	0.6284	0.2516	0.2561
colposcopies-5	0.4528	0.0000	0.0000
colposcopies-c	0.7397	0.4487	0.4754
column-2c	0.8931	0.7842	0.7863
column-3c	0.6845	0.6303	0.6338
connect-4	1.0000	1.0000	1.0000
coupon	0.6758	0.3498	0.3516
covtype	0.5077	0.5315	0.5331
covtypeCD	0.8805	0.7577	0.7608
covtypeT	0.7435	0.4700	0.4832
crabs	1.0000	1.0000	1.0000
creditcard_trans	0.8933	0.7761	0.7854
crowdsourced	0.6527	0.7459	0.7487
cryotherapy	0.9000	0.7805	0.8000
cultivars	0.1793	0.2305	0.2337
cybersecurity	0.1564	-0.0204	0.0000
cyclopentane	0.6601	0.3193	0.3202
cylinder-bands	0.7145	0.4288	0.4291
datatrieve	0.4800	0.0000	0.0000
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Dataset	F1-macro	Kappa	MCC
dating	0.1013	0.0018	0.0018
dbworld	0.7083	0.4167	0.4167
default	0.6859	0.3008	0.3563
dementia	1.0000	1.0000	1.0000
deposit	0.7206	0.4171	0.4361
depressed	0.4542	0.0000	0.0000
dermatology	0.9429	0.9325	0.9325
desharnais	0.9106	0.7838	0.8068
df_final	0.6863	0.4074	0.5042
DIA	0.6723	0.3158	0.3397
diabetes-100k	0.8446	0.6752	0.6875
diagnosis	1.0000	1.0000	1.0000
diamonds	0.9747	0.9769	0.9773
diamonds_all	0.5332	0.4864	0.4961
dishonest	1.0000	1.0000	1.0000
dlbcl-nih	0.6690	0.3333	0.3381
dlbcl-stanford	1.0000	1.0000	1.0000
dna0.1%	0.4993	0.0000	0.0000
dota2	0.5970	0.1923	0.1940
drebin	0.9708	0.9415	0.9415
dropout	0.6805	0.6045	0.6144
ecoli	0.5305	0.7934	0.7965
ecoliCP-IM	1.0000	1.0000	1.0000
ecoliM	0.8032	0.6043	0.6062
ecoliMU	0.6333	0.2667	0.2667
ecoliOM	0.8514	0.6526	0.6960
ecommerce	0.2147	-0.0522	0.0000
euthyroid	0.8960	0.7880	0.7917
fakenews	0.5474	0.0948	0.0948
fbis-wc	0.7303	0.7734	0.7746
finance	1.0000	1.0000	1.0000
financial-risk	0.4908	0.5895	0.6206
flags	0.4140	0.5541	0.5673
forest	0.9578	0.9470	0.9480
gas	0.9904	0.9887	0.9887
gastrointestinal	1.0000	1.0000	1.0000
gender	0.3807	0.1449	0.1583
german	0.6585	0.2927	0.3145
gestures	0.3568	0.1415	0.1415
gina	0.8933	0.7866	0.7866
gisette	0.9657	0.9314	0.9315
glass	0.4347	0.3803	0.3833
glass-g2	0.8667	0.7333	0.7333
glassBWFP	0.7419	0.4560	0.4824
glassBWNFP	0.4000	0.0000	0.0000
glassContainers	0.4762	0.0000	0.0000
glassNW	0.8662	0.6957	0.7303
glassTableware	1.0000	1.0000	1.0000
GlaucomaM	0.7389	0.4751	0.4778
gli_85	1.0000	1.0000	1.0000
glioma	0.8333	0.7059	0.7500
glioma-grade	0.9055	0.8072	0.8110
green	0.6098	0.2105	0.2182
gsalc	0.9167	0.8657	0.8788
haberman	0.4231	0.0000	0.0000
hapt	0.8696	0.9535	0.9535
har	0.7286	0.6693	0.6703
harth10%	0.2293	0.5039	0.5348
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Dataset	F1-macro	Kappa	MCC
health-activity	0.2175	0.0000	0.0000
heart	0.8064	0.6110	0.6128
heart-c	0.9000	0.7982	0.8000
heart-failure	0.8057	0.6113	0.6115
heart-quantum	0.9423	0.8780	0.8847
hepatitis	0.8544	0.6667	0.7071
higher	0.1509	0.0494	0.0567
hinselmann	0.4444	0.0000	0.0000
hitters	0.9373	0.8745	0.8745
hiv1-proteasa	0.8754	0.7505	0.7508
hiva	0.5844	0.1005	0.1361
horse	0.6052	0.3958	0.4149
hotel-reservartions	0.7966	0.5898	0.5930
hr	0.4633	0.0000	0.0000
ht-sensor	0.5751	0.3580	0.3615
htru2	0.9352	0.8667	0.8702
hypothyroid	0.5755	0.5574	0.5917
immuno-therapy	0.4375	0.0000	0.0000
ionosphere	0.8674	0.7348	0.7348
iris	0.9333	0.8993	0.9054
irish	1.0000	1.0000	1.0000
isolet	0.9229	0.9186	0.9187
jm1	0.6389	0.1635	0.2378
jvowels	0.9357	0.9317	0.9318
kc1-class-level-numericdefect	0.0326	0.0000	0.0000
kc1-class-level-top5percentDF	0.4643	-0.0714	0.0000
kc2	0.6059	0.2020	0.2096
kdc-4007	0.7603	0.7148	0.7156
kddcup991%	0.8172	0.9959	0.9959
kidney	0.1778	0.0000	0.0000
kidney-disease	1.0000	1.0000	1.0000
la2s-wc	0.8632	0.8457	0.8463
labor	0.8537	0.6667	0.7071
leaf	0.4625	0.7538	0.7593
led24	0.6322	0.6034	0.6103
lenses	1.0000	1.0000	1.0000
letter	0.7079	0.6983	0.6987
linkage1%	0.9755	0.9498	0.9510
loan	0.9021	0.8034	0.8042
lrs	0.5757	0.8424	0.8512
lung_discrete	0.6050	0.6923	0.7060
lymphography	0.6562	0.6348	0.6887
lymphoma2	0.7895	0.8500	0.8645
machine-failure	0.9134	0.8260	0.8268
magic04	0.7534	0.4988	0.5065
malware	1.0000	1.0000	1.0000
mammography	0.8536	0.7072	0.7072
marketing	0.7888	0.5404	0.5721
mba	0.3762	0.0967	0.1151
mental-disorders	0.9270	0.8889	0.8972
messidor	0.7298	0.4578	0.4596
meter-A	0.7241	0.3333	0.4472
meter-B	1.0000	1.0000	1.0000
meter-C	0.9183	0.8468	0.8578
meter-D	0.6813	0.7642	0.7894
mfeat-fac	0.9854	0.9833	0.9834
mfeat-fou	0.8173	0.7944	0.7952
mfeat-kar	0.9755	0.9722	0.9723
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Dataset	F1-macro	Kappa	MCC
mfeat-mor	0.7093	0.6778	0.6796
mfeat-pix	0.9659	0.9611	0.9614
mfeat-zer	0.8284	0.8056	0.8058
mice-prot	1.0000	1.0000	1.0000
milk	0.8903	0.8293	0.8364
mines	0.3892	0.3348	0.3451
mobile	0.7764	0.7615	0.7619
monks-1	0.6382	0.2696	0.2763
monks-3	0.7139	0.4278	0.4278
mushroom	1.0000	1.0000	1.0000
music	0.4695	0.3663	0.3780
MUT_ci300400a_cdk_ECFP2	0.7722	0.5441	0.5443
MUT_ci300400a_cdk_ECFP4	0.7791	0.5581	0.5582
MUT_ci300400a_cdk_ECFP6	0.7713	0.5404	0.5426
MUT_ci300400a_cdk_ESTATE	0.7127	0.4252	0.4254
MUT_ci300400a_cdk_EXTENDED	0.8072	0.6144	0.6145
MUT_ci300400a_cdk_FCFP2	0.7684	0.5365	0.5369
MUT_ci300400a_cdk_FCFP4	0.7642	0.5277	0.5283
MUT_ci300400a_cdk_FCFP6	0.7756	0.5513	0.5513
MUT_ci300400a_cdk_MACCS	0.7491	0.4947	0.4982
MUT_ci300400a_cdk_PUBCHEM	0.8290	0.6572	0.6580
MUT_ci300400a_cdk_STANDARD	0.7660	0.5319	0.5319
MUT_ci300400a_rdkit_descriptors	0.7834	0.5659	0.5668
myocardial	0.4538	0.4863	0.5573
naticusdroid	0.9632	0.9264	0.9265
nci9	0.7895	0.8000	0.8281
ncRNA10%	0.2377	0.5922	0.6122
neo	0.6070	0.1100	0.1666
new-thyroid	1.0000	1.0000	1.0000
new-thyroidT	1.0000	1.0000	1.0000
newspop	0.6408	0.2809	0.2816
NHANES_age_prediction	1.0000	1.0000	1.0000
nomao	0.9306	0.8612	0.8612
nursery	0.6965	0.8765	0.8773
obesity	0.7168	0.6790	0.6799
obs	0.8408	0.6947	0.6975
oh0-wc	0.9333	0.9208	0.9215
oh10-wc	0.7518	0.7293	0.7318
oh15-wc	0.7443	0.7410	0.7438
oh5-wc	0.7642	0.7276	0.7337
olive	0.9602	0.9565	0.9576
optdigits	0.9625	0.9565	0.9566
orlraws10P	0.8743	0.8889	0.8989
ozone1hr	0.4909	0.0000	0.0000
p53-mutants10%	0.4992	0.0000	0.0000
parkinson	0.9656	0.9306	0.9311
particle	0.8883	0.7765	0.7765
pc1	0.4789	-0.0163	0.0000
pcmac	0.3681	0.0000	0.0000
pediatric-leukemia	0.7016	0.7416	0.7637
pendigits	0.9324	0.9251	0.9253
period-10f	0.3571	-0.2000	0.0000
persistence	0.8017	0.6019	0.6033
personalities	0.9147	0.9090	0.9090
pet-adoption	0.8992	0.7831	0.7981
phishing	0.9571	0.9137	0.9143
PhiUSIL10%	0.9996	0.9991	0.9991
phy	0.7056	0.4111	0.4113
Continued on next page			

Dataset	F1-macro	Kappa	MCC
pima	0.7074	0.3667	0.4111
pirvision	0.9711	0.9478	0.9479
placement	0.7933	0.5865	0.5865
plrx	0.4194	0.0000	0.0000
polya	0.7660	0.5279	0.5318
popularity	0.4078	0.1946	0.2187
post-operative	0.2667	0.0000	0.0000
postures	0.8098	0.7627	0.7631
pred-tox_mutagen_ref-desc	0.6919	0.3824	0.3839
prestige	0.6061	0.6250	0.6934
primary-tumor	0.1998	0.4193	0.4335
processed	1.0000	1.0000	1.0000
profb	0.7543	0.5032	0.5083
promoters	0.9083	0.8000	0.8165
puc-rio	0.7542	0.7591	0.7609
pufs-1281%	0.5020	0.0040	0.0040
pufs-6410%	0.5012	0.0023	0.0023
pulsar	0.9355	0.8661	0.8708
raisin	0.9111	0.8222	0.8222
rejafada	1.0000	1.0000	1.0000
relathe	1.0000	1.0000	1.0000
rice	0.9861	0.9722	0.9723
rocket	0.5771	0.1494	0.1540
RT_IOT2022	0.8615	0.9561	0.9562
satimage	0.7806	0.7900	0.7965
scadi	0.6984	0.6316	0.6860
schiller	0.6786	0.3571	0.3571
sclerosis	1.0000	1.0000	1.0000
secom	0.4834	0.0000	0.0000
secondary_mushroom	0.8697	0.7392	0.7394
seeds	0.9553	0.9286	0.9317
segment	0.9450	0.9291	0.9293
segmentation	0.7969	0.5919	0.5937
segmentO	1.0000	1.0000	1.0000
seismic	0.6847	0.1046	0.2349
sens-2-gram	0.4648	0.0000	0.0000
sens-3-gram	0.6041	0.1440	0.1837
sens-4-gram	0.6043	0.2051	0.2076
sensorless	0.7506	0.7236	0.7242
shoppers	0.7440	0.4269	0.4762
sick	0.8110	0.6143	0.6208
sirtuin6	1.0000	1.0000	1.0000
smarket	0.9921	0.9840	0.9841
smk_can_187	0.7449	0.4633	0.4893
smoking	0.7332	0.4655	0.4665
soil_pollution	0.2061	0.0008	0.0008
solar-flare	0.6915	0.6753	0.6797
sonar	0.4497	-0.1000	0.0000
soybean	0.9546	0.9518	0.9527
spam-detection	0.8090	0.6069	0.6163
spambase	0.9042	0.8061	0.8083
spect	0.6403	0.2703	0.2786
spectf	0.7046	0.4043	0.4088
spectrometer	0.2595	0.3861	0.3911
squash-unstored	0.5714	0.6429	0.6944
startup	1.0000	1.0000	1.0000
steel_industry	0.7027	0.6014	0.6015
stellar	0.9116	0.8565	0.8572
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Dataset	F1-macro	Kappa	MCC
stock	0.8020	0.6006	0.6036
stockb	0.9704	0.9538	0.9551
streaming	0.8034	0.6066	0.6068
stress	1.0000	1.0000	1.0000
student-depression	0.8313	0.6616	0.6626
student-habits	0.2035	0.1088	0.1171
student-lifestyle	0.3522	0.3959	0.4094
student-weekend	0.2809	0.1228	0.1305
student-workday	0.1651	0.0000	0.0000
studentap	0.3636	0.1415	0.1460
swarm_aligned	1.0000	1.0000	1.0000
swarm_flocking	0.9996	0.9992	0.9992
swarm_grouped	1.0000	1.0000	1.0000
tae	0.4820	0.2000	0.2056
telco-churn	0.8632	0.7259	0.7264
texture	0.9982	0.9980	0.9980
theorem	1.0000	1.0000	1.0000
thoracic	0.4598	0.0000	0.0000
Thyroid_Diff	0.9681	0.9343	0.9363
tis	0.8998	0.7996	0.7997
titanic	0.7833	0.5545	0.5660
tourist	0.7467	0.8182	0.8374
trains	1.0000	1.0000	1.0000
transfusion	0.4231	-0.0504	0.0000
tuandromd	0.9686	0.9371	0.9371
turkish	0.8041	0.7333	0.7358
tvnews	0.8895	0.7788	0.7789
ur3_cobotops_grip	0.4917	0.0000	0.0000
ur3_cobotops_stop	0.4906	0.0000	0.0000
urban	0.7746	0.7370	0.7427
ustilago10%	0.6536	0.1943	0.2599
vehicle	0.7356	0.6670	0.6755
vote	0.9089	0.8143	0.8178
vowel	0.4621	0.4333	0.4487
wap-wc	0.6016	0.7147	0.7156
warpar10p	0.8743	0.9133	0.9195
warppie10p	0.9583	0.9470	0.9494
waveform	0.8561	0.7840	0.7843
weather-related	0.9645	0.9586	0.9587
weight-lift	0.8690	0.8420	0.8424
white-clover	0.4268	0.6667	0.7071
wifi-loc	0.9900	0.9867	0.9867
wilt	0.8526	0.6876	0.7030
wine	1.0000	1.0000	1.0000
winequality-red	0.2709	0.3360	0.3469
winequality-white	0.2846	0.2123	0.2275
winnipeg10%	0.9895	0.9837	0.9837
wisc.bc	0.9817	0.9627	0.9633
yale	0.8320	0.8655	0.8729
yeast	0.2955	0.3187	0.3231
yeastCYT-POX	0.9047	0.7897	0.8078
yeastEXC	0.4897	-0.0183	0.0000
yeastME1	0.6755	0.3211	0.3414
yeastME2	0.7773	0.4325	0.5253
zip	0.9224	0.9204	0.9205

Table 45: Detailed results for WildWood

Dataset	F1-macro	Kappa	MCC
abalone	0.0863	0.0835	0.0868
abalone19	0.4982	0.0000	0.0000
accelerometer	0.6876	0.0984	0.2275
ads	0.9281	0.8455	0.8557
adult	0.7328	0.3996	0.4550
advanced-iot	1.0000	1.0000	1.0000
AID_1431	0.4772	0.0000	0.0000
AID_1431_KlekotaRothFingerprinter	0.4772	0.0000	0.0000
AID_1431_MACCSFingerprinter	0.4772	0.0000	0.0000
AID_1878	0.4503	0.0000	0.0000
AID_602330	0.4894	0.0000	0.0000
AID_652128	0.3118	0.0000	0.0000
AID1284red	0.4627	0.0000	0.0000
AID1608Morered	0.4824	0.0000	0.0000
AID1608red	0.4850	0.0000	0.0000
AID362red	0.4965	0.0000	0.0000
AID373AID439red	0.5000	0.0000	0.0000
AID373red	0.4997	0.0000	0.0000
AID456red	0.4992	0.0000	0.0000
AID604	0.6919	0.1108	0.2421
AID604AID644_AllRed	0.4997	0.0000	0.0000
AID687AID721red	0.4998	0.0000	0.0000
AID687red	0.4992	0.0000	0.0000
AID688red	0.4977	0.0000	0.0000
AID721morered	0.4375	0.0000	0.0000
AID721red	0.4375	0.0000	0.0000
AID746AID1284red	0.4997	0.0000	0.0000
AID746red	0.4985	0.0000	0.0000
aids	0.8625	0.6952	0.7232
air_pollution	0.0826	0.0000	0.0000
alcohol	0.1640	0.0000	0.0000
all-aml	0.8182	0.5714	0.6325
anneal	0.7611	0.9047	0.9054
antivirus	1.0000	1.0000	1.0000
anuran-f-b	1.0000	1.0000	1.0000
anxiety	0.0395	-0.0070	0.0000
apple-quality	0.8382	0.6750	0.6764
aps-failure	0.8332	0.6437	0.6627
arabidopsis1%	0.4980	0.0000	0.0000
arcene	0.7667	0.5098	0.5334
arrhythmia	0.2847	0.3143	0.3792
auction	0.9433	0.8799	0.8864
audiology	0.1809	0.5241	0.5509
audit-risk	1.0000	1.0000	1.0000
autism-adolescent	1.0000	1.0000	1.0000
autism-adult	1.0000	1.0000	1.0000
autism-child	1.0000	1.0000	1.0000
autos	0.4265	0.5139	0.5757
avila	0.9707	0.9756	0.9757
balance	0.6228	0.8178	0.8244
bank	0.7167	0.3662	0.4168
bankruptcy	1.0000	1.0000	1.0000
bio	0.8856	0.7494	0.7686
biodeg	0.8369	0.6640	0.6736
biomed	1.0000	1.0000	1.0000
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Dataset	F1-macro	Kappa	MCC
bitcoin10%	0.0763	0.1533	0.2468
body-perf	0.7262	0.6328	0.6365
brain-tumor	0.5573	0.0040	0.0319
breast-cancer	0.4167	0.0000	0.0000
breast-cancer-ma	0.4248	-0.1379	0.0000
breast-tissue	0.5969	0.5600	0.5657
bridges	0.4000	0.4828	0.5739
bub12at310k-hg16-17	0.6639	0.1930	0.2762
cad	1.0000	1.0000	1.0000
cancer	1.0000	1.0000	1.0000
cancer-uae	0.2201	0.0000	0.0000
car-insurance	0.8289	0.6574	0.6577
cardiotocography-nsp	0.8670	0.7789	0.7859
cardiovascular	0.7385	0.4756	0.4771
cargo2k	1.0000	1.0000	1.0000
cars	0.7258	0.6433	0.6458
ccds10%	0.4902	0.0000	0.0000
cdc_diabetes	0.4192	0.1311	0.2060
census	0.7487	0.4092	0.4753
cervical-B	0.4819	0.0000	0.0000
cervical-H	0.4881	0.0000	0.0000
cervical-S	0.8890	0.7514	0.7758
children-anemia	0.6988	0.8891	0.8914
chrom19	0.6769	0.1467	0.2560
chrom211%	0.4998	0.0000	0.0000
churn	0.7386	0.4402	0.4715
cjs	1.0000	1.0000	1.0000
ckd	1.0000	1.0000	1.0000
clave	0.5240	0.6272	0.6490
cll_sub_111	0.6369	0.3023	0.3061
cmc	0.5420	0.3156	0.3176
cnae-9	0.9570	0.9479	0.9485
codon_usage	0.6653	0.8347	0.8370
coil20	1.0000	1.0000	1.0000
college	0.9172	0.8338	0.8343
collins	0.6093	0.6857	0.7011
colon-tumor	0.4000	0.0000	0.0000
colposcopies-1	0.3958	0.0000	0.0000
colposcopies-2	0.3830	0.0000	0.0000
colposcopies-4	0.4200	0.0000	0.0000
colposcopies-5	0.4528	0.0000	0.0000
colposcopies-c	0.4314	0.0000	0.0000
column-2c	0.8486	0.6884	0.6970
column-3c	0.7022	0.6246	0.6330
connect-4	0.6411	0.3967	0.4858
coupon	0.7296	0.4510	0.4590
covtype	0.7740	0.7587	0.7602
covtypeCD	0.9547	0.9076	0.9093
covtypeT	0.8739	0.7330	0.7463
crabs	0.8062	0.7333	0.7383
creditcard_trans	0.9233	0.8407	0.8462
crowdsourced	0.7116	0.8351	0.8387
cryotherapy	0.7404	0.3721	0.4781
cultivars	0.3000	0.4211	0.4258
cybersecurity	0.0786	-0.0202	0.0000
cyclopentane	0.6422	0.0917	0.2193
cylinder-bands	0.6940	0.2971	0.3787
datatrieve	0.4800	0.0000	0.0000
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Dataset	F1-macro	Kappa	MCC
dating	0.0185	0.0000	0.0000
dbworld	1.0000	1.0000	1.0000
default	0.7148	0.3961	0.4242
dementia	1.0000	1.0000	1.0000
deposit	0.6807	0.2604	0.3298
depressed	0.4542	0.0000	0.0000
dermatology	0.9429	0.9325	0.9325
desharnais	0.5333	0.4074	0.5042
df_final	0.5590	0.5000	0.5885
DIA	0.4286	0.0000	0.0000
diabetes-100k	0.8930	0.7612	0.7839
diagnosis	1.0000	1.0000	1.0000
diamonds	1.0000	1.0000	1.0000
diamonds_all	0.7577	0.6518	0.6631
dishonest	1.0000	1.0000	1.0000
dlbcl-nih	0.3684	0.0000	0.0000
dlbcl-stanford	0.8333	0.6154	0.6667
dna0.1%	0.4993	0.0000	0.0000
dota2	0.5768	0.1407	0.1530
drebin	0.9765	0.9525	0.9530
dropout	0.6610	0.5807	0.5959
ecoli	0.5380	0.7942	0.7992
ecoliCP-IM	1.0000	1.0000	1.0000
ecoliM	0.8032	0.6043	0.6062
ecoliMU	0.6822	0.3529	0.3614
ecoliOM	0.8514	0.6526	0.6960
ecommerce	0.1032	0.0000	0.0000
euthyroid	0.9064	0.8103	0.8126
fakenews	0.3355	0.0000	0.0000
fbis-wc	0.6421	0.7416	0.7478
finance	0.3544	0.0000	0.0000
financial-risk	0.5308	0.7193	0.7315
flags	0.3847	0.6066	0.6294
forest	0.9220	0.9202	0.9245
gas	0.9950	0.9939	0.9939
gastrointestinal	0.5623	0.5616	0.5955
gender	0.4775	0.0769	0.0998
german	0.6346	0.0368	0.1370
gestures	0.9037	0.8710	0.8713
gina	0.9252	0.8502	0.8504
gisette	0.9617	0.9229	0.9235
glass	0.5940	0.6500	0.6630
glass-g2	0.9352	0.8621	0.8704
glassBWFP	0.8467	0.6897	0.6934
glassBWNFP	0.8355	0.6667	0.6708
glassContainers	0.4762	0.0000	0.0000
glassNW	0.9340	0.8591	0.8677
glassTableware	0.4884	0.0000	0.0000
GlaucomaM	0.7978	0.5824	0.5955
gli_85	0.4286	0.0000	0.0000
glioma	0.6250	0.7059	0.7500
glioma-grade	0.8707	0.7360	0.7414
green	0.6098	0.2105	0.2182
gsalc	1.0000	1.0000	1.0000
haberman	0.4231	0.0000	0.0000
hapt	0.8527	0.9340	0.9341
har	0.9934	0.9923	0.9923
harth10%	0.4909	0.8037	0.7811
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Dataset	F1-macro	Kappa	MCC
health-activity	0.2175	0.0000	0.0000
heart	0.7666	0.5263	0.5330
heart-c	0.9067	0.7964	0.8134
heart-failure	0.9791	0.9579	0.9581
heart-quantum	0.9423	0.8780	0.8847
hepatitis	0.4444	0.0000	0.0000
higher	0.1690	0.0968	0.2283
hinselmann	0.4444	0.0000	0.0000
hitters	0.9373	0.8745	0.8745
hiv1-proteasa	0.7171	0.3220	0.4067
hiva	0.4910	0.0000	0.0000
horse	0.4481	0.1401	0.2705
hotel-reservartions	0.8765	0.7505	0.7530
hr	0.4633	0.0000	0.0000
ht-sensor	0.9999	0.9999	0.9999
htru2	0.9286	0.8557	0.8572
hypothyroid	0.7333	0.9384	0.9390
immuno-therapy	0.4375	0.0000	0.0000
ionosphere	0.9038	0.8059	0.8076
iris	0.9333	0.8993	0.9054
irish	1.0000	1.0000	1.0000
isolet	0.8889	0.8785	0.8790
jm1	0.6278	0.0977	0.1847
javowels	0.9508	0.9488	0.9490
kc1-class-level-numericdefect	0.0326	0.0000	0.0000
kc1-class-level-top5percentDF	0.4828	0.0000	0.0000
kc2	0.7118	0.4235	0.4235
kdc-4007	0.6844	0.7409	0.7414
kddcup991%	0.7422	0.9962	0.9962
kidney	0.1778	0.0000	0.0000
kidney-disease	1.0000	1.0000	1.0000
la2s-wc	0.8191	0.7858	0.7945
labor	1.0000	1.0000	1.0000
leaf	0.2967	0.5112	0.5269
led24	0.6445	0.6571	0.6610
lenses	0.1667	0.0000	0.0000
letter	0.9301	0.9266	0.9267
linkage1%	0.9755	0.9498	0.9510
loan	0.9826	0.9649	0.9652
lrs	0.4456	0.7886	0.8005
lung_discrete	0.5466	0.8367	0.8549
lymphography	0.3701	0.4510	0.4560
lymphoma2	0.4018	0.6842	0.7120
machine-failure	0.9251	0.8483	0.8501
magic04	0.8562	0.7073	0.7123
malware	1.0000	1.0000	1.0000
mammography	0.8543	0.7080	0.7086
marketing	0.7130	0.2334	0.3635
mba	0.3041	0.0000	0.0000
mental-disorders	0.9270	0.8889	0.8972
messidor	0.6790	0.3390	0.3581
meter-A	0.8873	0.7500	0.7746
meter-B	1.0000	1.0000	1.0000
meter-C	1.0000	1.0000	1.0000
meter-D	0.9148	0.9221	0.9262
mfeat-fac	0.9556	0.9500	0.9502
mfeat-fou	0.7890	0.7667	0.7683
mfeat-kar	0.9807	0.9778	0.9779
Continued on next page			

Dataset	F1-macro	Kappa	MCC
mfeat-mor	0.6851	0.6500	0.6507
mfeat-pix	0.9658	0.9611	0.9613
mfeat-zer	0.7433	0.7111	0.7131
mice-prot	1.0000	1.0000	1.0000
milk	1.0000	1.0000	1.0000
mines	0.5335	0.4469	0.4523
mobile	0.9103	0.9039	0.9042
monks-1	1.0000	1.0000	1.0000
monks-3	0.9824	0.9642	0.9648
mushroom	1.0000	1.0000	1.0000
music	0.5408	0.4129	0.4275
MUT_ci300400a_cdk_ECFP2	0.7786	0.5570	0.5572
MUT_ci300400a_cdk_ECFP4	0.7958	0.5913	0.5917
MUT_ci300400a_cdk_ECFP6	0.7609	0.5177	0.5218
MUT_ci300400a_cdk_ESTATE	0.7264	0.4495	0.4526
MUT_ci300400a_cdk_EXTENDED	0.8145	0.6290	0.6291
MUT_ci300400a_cdk_FCFP2	0.7632	0.5189	0.5263
MUT_ci300400a_cdk_FCFP4	0.7629	0.5250	0.5257
MUT_ci300400a_cdk_FCFP6	0.7751	0.5491	0.5502
MUT_ci300400a_cdk_MACCS	0.7924	0.5833	0.5848
MUT_ci300400a_cdk_PUBCHEM	0.8179	0.6350	0.6357
MUT_ci300400a_cdk_STANDARD	0.8000	0.5976	0.5999
MUT_ci300400a_rdkit_descriptors	0.8172	0.6343	0.6343
myocardial	0.2747	0.2901	0.4120
naticusdroid	0.9690	0.9379	0.9380
nci9	0.2917	0.4194	0.4845
ncRNA10%	0.5315	0.7368	0.7450
neo	0.6854	0.2261	0.3197
new-thyroid	0.9318	0.8871	0.8941
new-thyroidT	0.8981	0.7742	0.7947
newspop	0.6608	0.3163	0.3215
NHANES_age_prediction	1.0000	1.0000	1.0000
nomao	0.9520	0.9039	0.9041
nursery	0.7083	0.9397	0.9402
obesity	0.8955	0.8782	0.8792
obs	1.0000	1.0000	1.0000
oh0-wc	0.9013	0.8862	0.8878
oh10-wc	0.7218	0.7376	0.7457
oh15-wc	0.8817	0.8510	0.8541
oh5-wc	0.8870	0.8503	0.8542
olive	0.9174	0.9123	0.9157
optdigits	0.9587	0.9505	0.9507
orlraws10P	1.0000	1.0000	1.0000
ozone1hr	0.4909	0.0000	0.0000
p53-mutants10%	0.4992	0.0000	0.0000
parkinson	0.9915	0.9828	0.9830
particle	0.9088	0.8175	0.8176
pc1	0.4813	0.0000	0.0000
pcmac	0.3681	0.0000	0.0000
pediatric-leukemia	0.6143	0.7056	0.7164
pendigits	0.9856	0.9838	0.9839
period-10f	0.4000	0.0000	0.0000
persistence	0.7776	0.5441	0.5548
personalities	0.9471	0.9435	0.9435
pet-adoption	0.9319	0.8600	0.8638
phishing	0.9571	0.9137	0.9143
PhiUSIL10%	1.0000	1.0000	1.0000
phy	0.7136	0.4271	0.4272
Continued on next page			

Dataset	F1-macro	Kappa	MCC
pima	0.6735	0.3063	0.3435
pirvision	0.9817	0.9751	0.9751
placement	0.7893	0.5780	0.5787
plrx	0.4194	0.0000	0.0000
polya	0.7265	0.4152	0.4502
popularity	0.4120	0.1646	0.2172
post-operative	0.2667	0.0000	0.0000
postures	0.9802	0.9755	0.9755
pred-tox_mutagen_ref-desc	0.6919	0.3824	0.3839
prestige	0.8889	0.8302	0.8462
primary-tumor	0.1732	0.3435	0.3697
processed	1.0000	1.0000	1.0000
profb	0.4018	0.0000	0.0000
promoters	0.9083	0.8000	0.8165
puc-rio	0.9885	0.9915	0.9915
pufs-1281%	0.4958	-0.0079	0.0000
pufs-6410%	0.4976	-0.0044	0.0000
pulsar	0.9459	0.8895	0.8917
raisin	0.8801	0.7556	0.7603
rejafada	1.0000	1.0000	1.0000
relathe	1.0000	1.0000	1.0000
rice	0.9872	0.9744	0.9745
rocket	0.6550	0.3009	0.3096
RT_IOT2022	0.9750	0.9927	0.9927
satimage	0.8764	0.8669	0.8684
scadi	0.4989	0.6316	0.6860
schiller	0.4375	0.0000	0.0000
sclerosis	1.0000	1.0000	1.0000
secom	0.4834	0.0000	0.0000
secondary_mushroom	1.0000	1.0000	1.0000
seeds	0.9077	0.8571	0.8601
segment	0.9739	0.9646	0.9650
segmentation	0.8225	0.6450	0.6450
segmentO	1.0000	1.0000	1.0000
seismic	0.4830	0.0000	0.0000
sens-2-gram	0.4648	0.0000	0.0000
sens-3-gram	0.4648	0.0000	0.0000
sens-4-gram	0.4648	0.0000	0.0000
sensorless	0.9954	0.9949	0.9949
shoppers	0.7996	0.5851	0.5975
sick	0.8564	0.6843	0.7093
sirtuin6	1.0000	1.0000	1.0000
smarket	0.9921	0.9840	0.9841
smk_can_187	0.6960	0.3523	0.3906
smoking	0.7542	0.5047	0.5083
soil_pollution	0.0685	0.0000	0.0000
solar-flare	0.5943	0.6835	0.6893
sonar	0.5525	0.1000	0.1048
soybean	0.9421	0.9676	0.9683
spam-detection	0.8664	0.7327	0.7328
spambase	0.9272	0.8526	0.8544
spect	0.4375	0.0000	0.0000
spectf	0.8250	0.5882	0.6455
spectrometer	0.2110	0.4557	0.4672
squash-unstored	0.5556	0.6154	0.6667
startup	1.0000	1.0000	1.0000
steel_industry	0.8723	0.8362	0.8363
stellar	0.9726	0.9575	0.9576
Continued on next page			

Dataset	F1-macro	Kappa	MCC
stock	0.7920	0.5583	0.5809
stockb	0.9956	0.9934	0.9934
streaming	0.9960	0.9919	0.9919
stress	0.9845	0.9801	0.9805
student-depression	0.8180	0.6326	0.6359
student-habits	0.1101	0.0000	0.0000
student-lifestyle	0.3433	0.3943	0.4089
student-weekend	0.1111	0.0000	0.0000
student-workday	0.1651	0.0000	0.0000
studentap	0.4331	0.1250	0.2530
swarm_aligned	1.0000	1.0000	1.0000
swarm_flocking	1.0000	1.0000	1.0000
swarm_grouped	1.0000	1.0000	1.0000
tae	0.4953	0.2000	0.2200
telco-churn	0.8522	0.6963	0.7041
texture	0.9700	0.9639	0.9640
theorem	0.9983	0.9966	0.9966
thoracic	0.4598	0.0000	0.0000
Thyroid_Diff	0.9365	0.8648	0.8728
tis	0.8475	0.6589	0.6927
titanic	0.7934	0.5163	0.5813
tourist	0.2411	0.4146	0.4679
trains	0.3333	0.0000	0.0000
transfusion	0.5910	0.1749	0.1805
tuandromd	0.9732	0.9457	0.9465
turkish	0.7972	0.7333	0.7352
tvnews	0.9295	0.8580	0.8589
ur3_cobotops_grip	0.7031	0.2676	0.3573
ur3_cobotops_stop	0.6946	0.1335	0.2675
urban	0.8354	0.8068	0.8091
ustilago10%	0.4973	0.0000	0.0000
vehicle	0.7337	0.6937	0.6994
vote	0.9307	0.8605	0.8615
vowel	0.6896	0.6222	0.6322
wap-wc	0.4839	0.6709	0.6846
warpar10p	0.7059	0.7400	0.7553
warppie10p	1.0000	1.0000	1.0000
waveform	0.8363	0.7540	0.7547
weather-related	0.9722	0.9673	0.9675
weight-lift	0.9989	0.9987	0.9987
white-clover	0.1667	-0.2857	0.0000
wifi-loc	0.9900	0.9867	0.9867
wilt	0.9055	0.8011	0.8101
wine	1.0000	1.0000	1.0000
winequality-red	0.2677	0.2707	0.2804
winequality-white	0.2297	0.2564	0.2739
winnipeg10%	0.9917	0.9872	0.9872
wisc.bc	0.9643	0.9261	0.9286
yale	0.6532	0.6667	0.6869
yeast	0.4132	0.4569	0.4668
yeastCYT-POX	0.7394	0.4787	0.4787
yeastEXC	0.4932	0.0000	0.0000
yeastME1	0.4932	0.0000	0.0000
yeastME2	0.4879	0.0000	0.0000
zip	0.9239	0.9229	0.9230

Table 46: Detailed results for WSRF

Dataset	F1-macro	Kappa	MCC
abalone	0.0007	0.0000	0.0000
abalone19	0.0071	0.0000	0.0000
accelerometer	0.0175	0.0000	0.0000
ads	0.4623	0.0000	0.0000
adult	0.4328	0.0000	0.0000
advanced-iot	0.0476	0.0000	0.0000
AID_1431	0.4772	0.0000	0.0000
AID_1431_KlekotaRothFingerprinter	0.4772	0.0000	0.0000
AID_1431_MACCSFingerprinter	0.4772	0.0000	0.0000
AID_1878	0.4503	0.0000	0.0000
AID_602330	0.4894	0.0000	0.0000
AID_652128	0.3118	0.0000	0.0000
AID1284red	0.1220	0.0000	0.0000
AID1608Morered	0.0636	0.0000	0.0000
AID1608red	0.4850	0.0000	0.0000
AID362red	0.0138	0.0000	0.0000
AID373AID439red	0.0002	0.0000	0.0000
AID373red	0.0010	0.0000	0.0000
AID456red	0.4992	0.0000	0.0000
AID604	0.0035	0.0000	0.0000
AID604AID644_AllRed	0.4997	0.0000	0.0000
AID687AID721red	0.0006	0.0000	0.0000
AID687red	0.0030	0.0000	0.0000
AID688red	0.4977	0.0000	0.0000
AID721morered	0.1818	0.0000	0.0000
AID721red	0.1818	0.0000	0.0000
AID746AID1284red	0.0010	0.0000	0.0000
AID746red	0.0060	0.0000	0.0000
aids	0.4305	0.0000	0.0000
air_pollution	0.0252	0.0000	0.0000
alcohol	0.1640	0.0000	0.0000
all-aml	0.2500	0.0000	0.0000
anneal	0.0044	0.0000	0.0000
antivirus	0.1591	0.0000	0.0000
anuran-f-b	0.4979	0.0000	0.0000
anxiety	0.0217	0.0000	0.0000
apple-quality	0.3333	0.0000	0.0000
aps-failure	0.4955	0.0000	0.0000
arabidopsis1%	0.0079	0.0000	0.0000
arcene	0.2857	0.0000	0.0000
arrhythmia	0.0085	0.0000	0.0000
auction	0.4660	0.0000	0.0000
audiology	0.0390	0.0000	0.0000
audit-risk	0.2844	0.0000	0.0000
autism-adolescent	0.2667	0.0000	0.0000
autism-adult	0.4215	0.0000	0.0000
autism-child	0.3409	0.0000	0.0000
autos	0.0923	0.0000	0.0000
avila	0.0485	0.0000	0.0000
balance	0.2174	0.0000	0.0000
bank	0.4702	0.0000	0.0000
bankruptcy	0.3750	0.0000	0.0000
bio	0.4978	0.0000	0.0000
biodeg	0.3824	0.0000	0.0000
biomed	0.2759	0.0000	0.0000
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Dataset	F1-macro	Kappa	MCC
bitcoin10%	0.0006	0.0000	0.0000
body-perf	0.1000	0.0000	0.0000
brain-tumor	0.3340	0.0000	0.0000
breast-cancer	0.4167	0.0000	0.0000
breast-cancer-ma	0.3529	0.0000	0.0000
breast-tissue	0.0714	0.0000	0.0000
bridges	0.0303	0.0000	0.0000
bub12at310k-hg16-17	0.4762	0.0000	0.0000
cad	0.4118	0.0000	0.0000
cancer	0.3947	0.0000	0.0000
cancer-uae	0.2201	0.0000	0.0000
car-insurance	0.4072	0.0000	0.0000
cardiotocography-nsp	0.0799	0.0000	0.0000
cardiovascular	0.3335	0.0000	0.0000
cargo2k	0.1606	0.0000	0.0000
cars	0.2564	0.0000	0.0000
ccds10%	0.0370	0.0000	0.0000
cdc_diabetes	0.3048	0.0000	0.0000
census	0.4835	0.0000	0.0000
cervical-B	0.4819	0.0000	0.0000
cervical-H	0.4881	0.0000	0.0000
cervical-S	0.4756	0.0000	0.0000
children-anemia	0.1075	0.0000	0.0000
chrom19	0.4998	0.0000	0.0000
chrom211%	0.4998	0.0000	0.0000
churn	0.1694	0.0000	0.0000
cjs	0.0426	0.0000	0.0000
ckd	0.3939	0.0000	0.0000
clave	0.0707	0.0000	0.0000
cll_sub_111	0.0952	0.0000	0.0000
cmc	0.2000	0.0000	0.0000
cnae-9	0.0222	0.0000	0.0000
codon_usage	0.0325	0.0000	0.0000
coil20	0.0046	0.0000	0.0000
college	0.4211	0.0000	0.0000
collins	0.0099	0.0000	0.0000
colon-tumor	0.2500	0.0000	0.0000
colposcopies-1	0.3958	0.0000	0.0000
colposcopies-2	0.3830	0.0000	0.0000
colposcopies-4	0.4200	0.0000	0.0000
colposcopies-5	0.4528	0.0000	0.0000
colposcopies-c	0.4314	0.0000	0.0000
column-2c	0.4038	0.0000	0.0000
column-3c	0.1081	0.0000	0.0000
connect-4	0.0068	0.0000	0.0000
coupon	0.3625	0.0000	0.0000
covtype	0.0763	0.0000	0.0000
covtypeCD	0.1202	0.0000	0.0000
covtypeT	0.4819	0.0000	0.0000
crabs	0.1000	0.0000	0.0000
creditcard_trans	0.4996	0.0000	0.0000
crowdsourced	0.0075	0.0000	0.0000
cryotherapy	0.3077	0.0000	0.0000
cultivars	0.0019	0.0000	0.0000
cybersecurity	0.0500	0.0000	0.0000
cyclopentane	0.3077	0.0000	0.0000
cylinder-bands	0.2987	0.0000	0.0000
datatrieve	0.4800	0.0000	0.0000
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Dataset	F1-macro	Kappa	MCC
dating	0.0181	0.0000	0.0000
dbworld	0.3636	0.0000	0.0000
default	0.4379	0.0000	0.0000
dementia	0.3421	0.0000	0.0000
deposit	0.4689	0.0000	0.0000
depressed	0.4542	0.0000	0.0000
dermatology	0.0764	0.0000	0.0000
desharnais	0.2564	0.0000	0.0000
df_final	0.1818	0.0000	0.0000
DIA	0.4286	0.0000	0.0000
diabetes-100k	0.4778	0.0000	0.0000
diagnosis	0.3684	0.0000	0.0000
diamonds	0.1053	0.0000	0.0000
diamonds_all	0.1142	0.0000	0.0000
dishonest	0.2381	0.0000	0.0000
dlbcl-nih	0.3684	0.0000	0.0000
dlbcl-stanford	0.2857	0.0000	0.0000
dna0.1%	0.0028	0.0000	0.0000
dota2	0.3210	0.0000	0.0000
drebin	0.2700	0.0000	0.0000
dropout	0.1627	0.0000	0.0000
ecoli	0.1020	0.0000	0.0000
ecoliCP-IM	0.3889	0.0000	0.0000
ecoliM	0.1951	0.0000	0.0000
ecoliMU	0.0833	0.0000	0.0000
ecoliOM	0.0571	0.0000	0.0000
ecommerce	0.1032	0.0000	0.0000
euthyroid	0.0893	0.0000	0.0000
fakenews	0.3355	0.0000	0.0000
fbis-wc	0.0042	0.0000	0.0000
finance	0.3544	0.0000	0.0000
financial-risk	0.0692	0.0000	0.0000
flags	0.0476	0.0000	0.0000
forest	0.1000	0.0000	0.0000
gas	0.0388	0.0000	0.0000
gastrointestinal	0.2222	0.0000	0.0000
gender	0.2472	0.0000	0.0000
german	0.3939	0.0000	0.0000
gestures	0.0997	0.0000	0.0000
gina	0.3288	0.0000	0.0000
gisette	0.3333	0.0000	0.0000
glass	0.0920	0.0000	0.0000
glass-g2	0.2727	0.0000	0.0000
glassBWFP	0.2759	0.0000	0.0000
glassBWNFP	0.2500	0.0000	0.0000
glassContainers	0.0833	0.0000	0.0000
glassNW	0.4324	0.0000	0.0000
glassTableware	0.0435	0.0000	0.0000
GlaucomaM	0.3214	0.0000	0.0000
gli_85	0.2000	0.0000	0.0000
glioma	0.1905	0.0000	0.0000
glioma-grade	0.3684	0.0000	0.0000
green	0.2308	0.0000	0.0000
gsalc	0.0606	0.0000	0.0000
haberman	0.4231	0.0000	0.0000
hapt	0.0012	0.0000	0.0000
har	0.0886	0.0000	0.0000
harth10%	0.0096	0.0000	0.0000
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Dataset	F1-macro	Kappa	MCC
health-activity	0.2175	0.0000	0.0000
heart	0.3721	0.0000	0.0000
heart-c	0.3478	0.0000	0.0000
heart-failure	0.4069	0.0000	0.0000
heart-quantum	0.3750	0.0000	0.0000
hepatitis	0.1667	0.0000	0.0000
higher	0.0441	0.0000	0.0000
hinselmann	0.1667	0.0000	0.0000
hitters	0.3469	0.0000	0.0000
hiv1-proteasa	0.4535	0.0000	0.0000
hiva	0.0342	0.0000	0.0000
horse	0.2303	0.0000	0.0000
hotel-reservartions	0.4020	0.0000	0.0000
hr	0.4633	0.0000	0.0000
ht-sensor	0.1650	0.0000	0.0000
htru2	0.4760	0.0000	0.0000
hypothyroid	0.2382	0.0000	0.0000
immuno-therapy	0.1818	0.0000	0.0000
ionosphere	0.2391	0.0000	0.0000
iris	0.1905	0.0000	0.0000
irish	0.3590	0.0000	0.0000
isolet	0.0029	0.0000	0.0000
jm1	0.4464	0.0000	0.0000
jvowels	0.0219	0.0000	0.0000
kc1-class-level-numericdefect	0.0286	0.0000	0.0000
kc1-class-level-top5percentDF	0.0625	0.0000	0.0000
kc2	0.4409	0.0000	0.0000
kdc-4007	0.0345	0.0000	0.0000
kddcup991%	0.0253	0.0000	0.0000
kidney	0.1778	0.0000	0.0000
kidney-disease	0.3846	0.0000	0.0000
la2s-wc	0.0319	0.0000	0.0000
labor	0.2500	0.0000	0.0000
leaf	0.0025	0.0000	0.0000
led24	0.0106	0.0000	0.0000
lenses	0.1667	0.0000	0.0000
letter	0.0027	0.0000	0.0000
linkage1%	0.0036	0.0000	0.0000
loan	0.3838	0.0000	0.0000
lrs	0.0246	0.0000	0.0000
lung_discrete	0.0444	0.0000	0.0000
lymphography	0.0444	0.0000	0.0000
lymphoma2	0.1026	0.0000	0.0000
machine-failure	0.2932	0.0000	0.0000
magic04	0.3934	0.0000	0.0000
malware	0.1591	0.0000	0.0000
mammography	0.3191	0.0000	0.0000
marketing	0.1284	0.0000	0.0000
mba	0.0845	0.0000	0.0000
mental-disorders	0.1000	0.0000	0.0000
messidor	0.3030	0.0000	0.0000
meter-A	0.2727	0.0000	0.0000
meter-B	0.1212	0.0000	0.0000
meter-C	0.1250	0.0000	0.0000
meter-D	0.1087	0.0000	0.0000
mfeat-fac	0.0182	0.0000	0.0000
mfeat-fou	0.0182	0.0000	0.0000
mfeat-kar	0.0182	0.0000	0.0000
Continued on next page			

Dataset	F1-macro	Kappa	MCC
mfeat-mor	0.0182	0.0000	0.0000
mfeat-pix	0.0182	0.0000	0.0000
mfeat-zer	0.0182	0.0000	0.0000
mice-prot	0.0305	0.0000	0.0000
milk	0.1272	0.0000	0.0000
mines	0.0600	0.0000	0.0000
mobile	0.0007	0.0000	0.0000
monks-1	0.3293	0.0000	0.0000
monks-3	0.3412	0.0000	0.0000
mushroom	0.3253	0.0000	0.0000
music	0.0136	0.0000	0.0000
MUT_ci300400a_cdk_ECFP2	0.2944	0.0000	0.0000
MUT_ci300400a_cdk_ECFP4	0.2942	0.0000	0.0000
MUT_ci300400a_cdk_ECFP6	0.2948	0.0000	0.0000
MUT_ci300400a_cdk_ESTATE	0.2944	0.0000	0.0000
MUT_ci300400a_cdk_EXTENDED	0.2944	0.0000	0.0000
MUT_ci300400a_cdk_FCFP2	0.2942	0.0000	0.0000
MUT_ci300400a_cdk_FCFP4	0.2944	0.0000	0.0000
MUT_ci300400a_cdk_FCFP6	0.2944	0.0000	0.0000
MUT_ci300400a_cdk_MACCS	0.2944	0.0000	0.0000
MUT_ci300400a_cdk_PUBCHEM	0.2942	0.0000	0.0000
MUT_ci300400a_cdk_STANDARD	0.2942	0.0000	0.0000
MUT_ci300400a_rdkit_descriptors	0.2988	0.0000	0.0000
myocardial	0.1142	0.0000	0.0000
naticusdroid	0.3328	0.0000	0.0000
nci9	0.0476	0.0000	0.0000
ncRNA10%	0.0461	0.0000	0.0000
neo	0.4744	0.0000	0.0000
new-thyroid	0.2778	0.0000	0.0000
new-thyroidT	0.1250	0.0000	0.0000
newspop	0.3187	0.0000	0.0000
NHANES_age_prediction	0.4569	0.0000	0.0000
nomao	0.4167	0.0000	0.0000
nursery	0.1250	0.0000	0.0000
obesity	0.0345	0.0000	0.0000
obs	0.1582	0.0000	0.0000
oh0-wc	0.0112	0.0000	0.0000
oh10-wc	0.0205	0.0000	0.0000
oh15-wc	0.0122	0.0000	0.0000
oh5-wc	0.0143	0.0000	0.0000
olive	0.0111	0.0000	0.0000
optdigits	0.0163	0.0000	0.0000
orlraws10P	0.0182	0.0000	0.0000
ozone1hr	0.4909	0.0000	0.0000
p53-mutants10%	0.4992	0.0000	0.0000
parkinson	0.2899	0.0000	0.0000
particle	0.2191	0.0000	0.0000
pc1	0.4813	0.0000	0.0000
pcmac	0.2945	0.0000	0.0000
pediatric-leukemia	0.0159	0.0000	0.0000
pendigits	0.0186	0.0000	0.0000
period-10f	0.4000	0.0000	0.0000
persistence	0.2733	0.0000	0.0000
personalities	0.0074	0.0000	0.0000
pet-adoption	0.4012	0.0000	0.0000
phishing	0.3782	0.0000	0.0000
PhiUSIL10%	0.3637	0.0000	0.0000
phy	0.3346	0.0000	0.0000
Continued on next page			

Dataset	F1-macro	Kappa	MCC
pima	0.2830	0.0000	0.0000
pirvision	0.2997	0.0000	0.0000
placement	0.3671	0.0000	0.0000
plrx	0.4194	0.0000	0.0000
polya	0.2635	0.0000	0.0000
popularity	0.1591	0.0000	0.0000
post-operative	0.2500	0.0000	0.0000
postures	0.0690	0.0000	0.0000
pred-tox_mutagen_ref-desc	0.3333	0.0000	0.0000
prestige	0.1667	0.0000	0.0000
primary-tumor	0.0237	0.0000	0.0000
processed	0.4040	0.0000	0.0000
profb	0.2472	0.0000	0.0000
promoters	0.3750	0.0000	0.0000
puc-rio	0.0936	0.0000	0.0000
pufs-1281%	0.3333	0.0000	0.0000
pufs-6410%	0.3334	0.0000	0.0000
pulsar	0.4757	0.0000	0.0000
raisin	0.3333	0.0000	0.0000
rejafada	0.0340	0.0000	0.0000
relathe	0.3516	0.0000	0.0000
rice	0.3545	0.0000	0.0000
rocket	0.2897	0.0000	0.0000
RT_IOT2022	0.0054	0.0000	0.0000
satimage	0.0617	0.0000	0.0000
scadi	0.1200	0.0000	0.0000
schiller	0.1818	0.0000	0.0000
sclerosis	0.3077	0.0000	0.0000
secom	0.4834	0.0000	0.0000
secondary_mushroom	0.3568	0.0000	0.0000
seeds	0.1667	0.0000	0.0000
segment	0.0367	0.0000	0.0000
segmentation	0.3916	0.0000	0.0000
segmentO	0.1283	0.0000	0.0000
seismic	0.4830	0.0000	0.0000
sens-2-gram	0.4648	0.0000	0.0000
sens-3-gram	0.4648	0.0000	0.0000
sens-4-gram	0.4648	0.0000	0.0000
sensorless	0.0151	0.0000	0.0000
shoppers	0.4583	0.0000	0.0000
sick	0.4829	0.0000	0.0000
sirtuin6	0.3333	0.0000	0.0000
smarket	0.3386	0.0000	0.0000
smk_can_187	0.3214	0.0000	0.0000
smoking	0.3876	0.0000	0.0000
soil_pollution	0.0648	0.0000	0.0000
solar-flare	0.0745	0.0000	0.0000
sonar	0.3333	0.0000	0.0000
soybean	0.0015	0.0000	0.0000
spam-detection	0.4759	0.0000	0.0000
spambase	0.2835	0.0000	0.0000
spect	0.4375	0.0000	0.0000
spectf	0.4167	0.0000	0.0000
spectrometer	0.0053	0.0000	0.0000
squash-unstored	0.2857	0.0000	0.0000
startup	0.3922	0.0000	0.0000
steel_industry	0.2269	0.0000	0.0000
stellar	0.2486	0.0000	0.0000
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Dataset	F1-macro	Kappa	MCC
stock	0.4504	0.0000	0.0000
stockb	0.1672	0.0000	0.0000
streaming	0.3094	0.0000	0.0000
stress	0.0640	0.0000	0.0000
student-depression	0.3693	0.0000	0.0000
student-habits	0.0190	0.0000	0.0000
student-lifestyle	0.1251	0.0000	0.0000
student-weekend	0.1111	0.0000	0.0000
student-workday	0.1651	0.0000	0.0000
studentap	0.1852	0.0000	0.0000
swarm_aligned	0.4075	0.0000	0.0000
swarm_flocking	0.3333	0.0000	0.0000
swarm_grouped	0.3846	0.0000	0.0000
tae	0.1667	0.0000	0.0000
telco-churn	0.2099	0.0000	0.0000
texture	0.0154	0.0000	0.0000
theorem	0.3681	0.0000	0.0000
thoracic	0.4598	0.0000	0.0000
Thyroid_Diff	0.4154	0.0000	0.0000
tis	0.1984	0.0000	0.0000
titanic	0.2440	0.0000	0.0000
tourist	0.0444	0.0000	0.0000
trains	0.3333	0.0000	0.0000
transfusion	0.4318	0.0000	0.0000
tuandromd	0.4439	0.0000	0.0000
turkish	0.1000	0.0000	0.0000
tvnews	0.2679	0.0000	0.0000
ur3_cobotops_grip	0.4917	0.0000	0.0000
ur3_cobotops_stop	0.4906	0.0000	0.0000
urban	0.0289	0.0000	0.0000
ustilago10%	0.0106	0.0000	0.0000
vehicle	0.1000	0.0000	0.0000
vote	0.3281	0.0000	0.0000
vowel	0.0152	0.0000	0.0000
wap-wc	0.0013	0.0000	0.0000
warpar10p	0.0267	0.0000	0.0000
warppie10p	0.0174	0.0000	0.0000
waveform	0.1669	0.0000	0.0000
weather-related	0.0296	0.0000	0.0000
weight-lift	0.0621	0.0000	0.0000
white-clover	0.4000	0.0000	0.0000
wifi-loc	0.1000	0.0000	0.0000
wilt	0.0473	0.0000	0.0000
wine	0.1270	0.0000	0.0000
winequality-red	0.0999	0.0000	0.0000
winequality-white	0.1031	0.0000	0.0000
winnipeg10%	0.0307	0.0000	0.0000
wisc_bc	0.2692	0.0000	0.0000
yale	0.0078	0.0000	0.0000
yeast	0.0425	0.0000	0.0000
yeastCYT-POX	0.4896	0.0000	0.0000
yeastEXC	0.0263	0.0000	0.0000
yeastME1	0.0263	0.0000	0.0000
yeastME2	0.0452	0.0000	0.0000
zip	0.0162	0.0000	0.0000

Table 47: Detailed results for WSRFOREST

Dataset	F1-macro	Kappa	MCC
abalone	0.1268	0.0874	0.0887
abalone19	0.4982	0.0000	0.0000
accelerometer	0.7214	0.3460	0.4127
ads	0.4623	0.0000	0.0000
adult	0.4328	0.0000	0.0000
advanced-iot	1.0000	1.0000	1.0000
AID_1431	0.4772	0.0000	0.0000
AID_1431_KlekotaRothFingerprinter	0.4772	0.0000	0.0000
AID_1431_MACCSFingerprinter	0.4772	0.0000	0.0000
AID_1878	0.5220	0.0256	0.0357
AID_602330	0.4894	0.0000	0.0000
AID_652128	0.3118	0.0000	0.0000
AID1284red	0.4545	-0.0485	0.0000
AID1608Morered	0.4824	0.0000	0.0000
AID1608red	0.4850	0.0000	0.0000
AID362red	0.4965	0.0000	0.0000
AID373AID439red	0.0002	0.0000	0.0000
AID373red	0.0010	0.0000	0.0000
AID456red	0.4992	0.0000	0.0000
AID604	0.0035	0.0000	0.0000
AID604AID644_AllRed	0.4997	0.0000	0.0000
AID687AID721red	0.4998	0.0000	0.0000
AID687red	0.0030	0.0000	0.0000
AID688red	0.4977	0.0000	0.0000
AID721morered	0.4375	0.0000	0.0000
AID721red	0.4375	0.0000	0.0000
AID746AID1284red	0.0010	0.0000	0.0000
AID746red	0.0060	0.0000	0.0000
aids	0.8401	0.6734	0.6798
air_pollution	0.0826	0.0000	0.0000
alcohol	0.5370	0.5724	0.6070
all-aml	1.0000	1.0000	1.0000
anneal	0.9765	0.9538	0.9551
antivirus	1.0000	1.0000	1.0000
anuran-f-b	1.0000	1.0000	1.0000
anxiety	0.0867	-0.0234	0.0000
apple-quality	0.8881	0.7750	0.7762
aps-failure	0.4955	0.0000	0.0000
arabidopsis1%	0.0080	0.0000	0.0000
arcene	0.2857	0.0000	0.0000
arrhythmia	0.7018	0.6806	0.6857
auction	0.9889	0.9776	0.9778
audiology	0.8590	0.8942	0.8986
audit-risk	1.0000	1.0000	1.0000
autism-adolescent	0.2667	0.0000	0.0000
autism-adult	0.4215	0.0000	0.0000
autism-child	1.0000	1.0000	1.0000
autos	0.9064	0.8667	0.8758
avila	0.9938	0.9963	0.9963
balance	0.6287	0.8199	0.8243
bank	0.4702	0.0000	0.0000
bankruptcy	1.0000	1.0000	1.0000
bio	0.4978	0.0000	0.0000
biodeg	0.8780	0.7553	0.7560
biomed	1.0000	1.0000	1.0000
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Dataset	F1-macro	Kappa	MCC
bitcoin10%	0.0006	0.0000	0.0000
body-perf	0.1000	0.0000	0.0000
brain-tumor	0.3340	0.0000	0.0000
breast-cancer	0.7126	0.3824	0.4196
breast-cancer-ma	0.3529	0.0000	0.0000
breast-tissue	0.6620	0.5686	0.5918
bridges	0.7895	0.8571	0.8697
bub12at310k-hg16-17	0.4762	0.0000	0.0000
cad	1.0000	1.0000	1.0000
cancer	1.0000	1.0000	1.0000
cancer-uae	0.3224	0.0112	0.0147
car-insurance	0.8231	0.6461	0.6463
cardiotocography-nsp	0.9213	0.8942	0.8956
cardiovascular	0.3335	0.0000	0.0000
cargo2k	1.0000	1.0000	1.0000
cars	0.8471	0.8178	0.8207
ccds10%	0.0373	0.0000	0.0000
cdc_diabetes	0.3048	0.0000	0.0000
census	0.0600	0.0000	0.0000
cervical-B	0.8563	0.7088	0.7122
cervical-H	0.9446	0.8828	0.8890
cervical-S	0.8890	0.7514	0.7758
children-anemia	0.9393	0.9138	0.9146
chrom19	0.4998	0.0000	0.0000
chrom211%	0.4998	0.0000	0.0000
churn	0.7508	0.4865	0.4996
cjs	1.0000	1.0000	1.0000
ckd	0.3939	0.0000	0.0000
clave	0.6750	0.7116	0.7141
cll_sub_111	0.7222	0.4545	0.4545
cmc	0.5478	0.3206	0.3255
cnae-9	0.9550	0.9479	0.9483
codon_usage	0.7522	0.8920	0.8931
coil20	1.0000	1.0000	1.0000
college	0.9172	0.8338	0.8343
collins	1.0000	1.0000	1.0000
colon-tumor	0.7500	0.4000	0.5000
colposcopies-1	0.6009	0.1989	0.2015
colposcopies-2	0.7264	0.3176	0.4345
colposcopies-4	0.6667	0.3165	0.3310
colposcopies-5	0.4528	0.0000	0.0000
colposcopies-c	0.7985	0.5827	0.5958
column-2c	0.8524	0.7048	0.7048
column-3c	0.6451	0.5804	0.5814
connect-4	0.0068	0.0000	0.0000
coupon	0.3625	0.0000	0.0000
covtype	0.0763	0.0000	0.0000
covtypeCD	0.9841	0.9683	0.9683
covtypeT	0.9487	0.8965	0.8973
crabs	0.9141	0.8667	0.8785
creditcard_trans	0.4996	0.0000	0.0000
crowdsourced	0.8395	0.8833	0.8847
cryotherapy	0.7404	0.3721	0.4781
cultivars	0.4570	0.6137	0.6206
cybersecurity	0.1772	0.0100	0.0102
cyclopentane	0.7750	0.5500	0.5500
cylinder-bands	0.8094	0.6170	0.6188
datatrieve	0.4800	0.0000	0.0000
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Dataset	F1-macro	Kappa	MCC
dating	0.0181	0.0000	0.0000
dbworld	1.0000	1.0000	1.0000
default	0.4379	0.0000	0.0000
dementia	1.0000	1.0000	1.0000
deposit	0.4689	0.0000	0.0000
depressed	0.6278	0.1151	0.1954
dermatology	0.9429	0.9325	0.9325
desharnais	0.5032	0.3143	0.3235
df_final	0.8268	0.7108	0.7153
DIA	0.7585	0.4595	0.5096
diabetes-100k	0.4778	0.0000	0.0000
diagnosis	1.0000	1.0000	1.0000
diamonds	1.0000	1.0000	1.0000
diamonds_all	0.1142	0.0000	0.0000
dishonest	1.0000	1.0000	1.0000
dlbcl-nih	0.3684	0.0000	0.0000
dlbcl-stanford	0.8333	0.6154	0.6667
dna0.1%	0.0028	0.0000	0.0000
dota2	0.3210	0.0000	0.0000
drebin	0.2700	0.0000	0.0000
dropout	0.6562	0.5869	0.5949
ecoli	0.6893	0.7521	0.7617
ecoliCP-IM	1.0000	1.0000	1.0000
ecoliM	0.9175	0.8350	0.8350
ecoliMU	0.7649	0.5217	0.5285
ecoliOM	0.8514	0.6526	0.6960
ecommerce	0.3067	0.0628	0.0647
euthyroid	0.9064	0.8103	0.8126
fakenews	0.5614	0.1174	0.1227
fbis-wc	0.0042	0.0000	0.0000
finance	0.7956	0.5487	0.5904
financial-risk	0.8587	0.8901	0.8905
flags	0.0476	0.0000	0.0000
forest	0.9069	0.8937	0.8983
gas	0.0388	0.0000	0.0000
gastrointestinal	1.0000	1.0000	1.0000
gender	0.4328	0.0955	0.1108
german	0.6933	0.3005	0.3742
gestures	0.0997	0.0000	0.0000
gina	0.3288	0.0000	0.0000
gisette	0.3333	0.0000	0.0000
glass	0.7902	0.8025	0.8050
glass-g2	1.0000	1.0000	1.0000
glassBWFP	1.0000	1.0000	1.0000
glassBWNFP	0.8355	0.6667	0.6708
glassContainers	0.8483	0.6452	0.6901
glassNW	0.9340	0.8591	0.8677
glassTableware	0.4884	0.0000	0.0000
GlaucomaM	0.7889	0.5778	0.5778
gli_85	0.2000	0.0000	0.0000
glioma	0.8333	0.7059	0.7500
glioma-grade	0.8790	0.7571	0.7580
green	0.4553	-0.0870	0.0000
gsalc	0.9167	0.8657	0.8788
haberman	0.4923	-0.0135	0.0000
hapt	0.0012	0.0000	0.0000
har	0.9960	0.9955	0.9955
harth10%	0.0096	0.0000	0.0000
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Dataset	F1-macro	Kappa	MCC
health-activity	0.2175	0.0000	0.0000
heart	0.8090	0.5994	0.6175
heart-c	0.8683	0.7297	0.7365
heart-failure	0.9814	0.9626	0.9628
heart-quantum	0.9083	0.8000	0.8165
hepatitis	0.7266	0.4444	0.4523
higher	0.1529	0.0494	0.0529
hinselmann	0.4118	-0.1538	0.0000
hitters	0.9373	0.8745	0.8745
hiv1-proteasa	0.7859	0.5337	0.5665
hiva	0.0342	0.0000	0.0000
horse	0.6461	0.4000	0.4194
hotel-reservartions	0.4020	0.0000	0.0000
hr	0.4633	0.0000	0.0000
ht-sensor	0.1650	0.0000	0.0000
htru2	0.9342	0.8674	0.8684
hypothyroid	0.7262	0.9519	0.9521
immuno-therapy	0.6786	0.3571	0.3571
ionosphere	0.9038	0.8059	0.8076
iris	1.0000	1.0000	1.0000
irish	1.0000	1.0000	1.0000
isolet	0.0029	0.0000	0.0000
jm1	0.6595	0.2584	0.3034
jvowels	0.9713	0.9693	0.9693
kc1-class-level-numericdefect	0.3733	0.3500	0.4677
kc1-class-level-top5percentDF	0.4643	-0.0714	0.0000
kc2	0.6980	0.3237	0.3806
kdc-4007	0.0345	0.0000	0.0000
kddcup991%	0.0253	0.0000	0.0000
kidney	0.1778	0.0000	0.0000
kidney-disease	0.3846	0.0000	0.0000
la2s-wc	0.0319	0.0000	0.0000
labor	0.8537	0.6667	0.7071
leaf	0.6461	0.6901	0.6958
led24	0.6222	0.6078	0.6130
lenses	1.0000	1.0000	1.0000
letter	0.9619	0.9605	0.9605
linkage1%	0.9755	0.9498	0.9510
loan	0.9875	0.9750	0.9751
lrs	0.6262	0.7636	0.7736
lung_discrete	0.6349	0.7037	0.7452
lymphography	0.5520	0.6000	0.6181
lymphoma2	0.6027	0.6842	0.7120
machine-failure	0.9124	0.8247	0.8247
magic04	0.8641	0.7257	0.7282
malware	1.0000	1.0000	1.0000
mammography	0.8251	0.6468	0.6503
marketing	0.7645	0.4636	0.5171
mba	0.0845	0.0000	0.0000
mental-disorders	0.9270	0.8889	0.8972
messidor	0.6869	0.3718	0.3738
meter-A	0.8000	0.5294	0.6000
meter-B	1.0000	1.0000	1.0000
meter-C	1.0000	1.0000	1.0000
meter-D	0.9148	0.9221	0.9262
mfeat-fac	0.9708	0.9667	0.9669
mfeat-fou	0.8083	0.7889	0.7894
mfeat-kar	0.9712	0.9667	0.9669
Continued on next page			

Dataset	F1-macro	Kappa	MCC
mfeat-mor	0.6877	0.6444	0.6459
mfeat-pix	0.9856	0.9833	0.9834
mfeat-zer	0.7777	0.7556	0.7559
mice-prot	1.0000	1.0000	1.0000
milk	1.0000	1.0000	1.0000
mines	0.6004	0.5206	0.5235
mobile	0.9519	0.9466	0.9468
monks-1	1.0000	1.0000	1.0000
monks-3	0.9824	0.9642	0.9648
mushroom	1.0000	1.0000	1.0000
music	0.5295	0.3927	0.3968
MUT_ci300400a_cdk_ECFP2	0.2944	0.0000	0.0000
MUT_ci300400a_cdk_ECFP4	0.2942	0.0000	0.0000
MUT_ci300400a_cdk_ECFP6	0.2948	0.0000	0.0000
MUT_ci300400a_cdk_ESTATE	0.7739	0.5468	0.5478
MUT_ci300400a_cdk_EXTENDED	0.2944	0.0000	0.0000
MUT_ci300400a_cdk_FCFP2	0.2942	0.0000	0.0000
MUT_ci300400a_cdk_FCFP4	0.2944	0.0000	0.0000
MUT_ci300400a_cdk_FCFP6	0.2944	0.0000	0.0000
MUT_ci300400a_cdk_MACCS	0.8559	0.7112	0.7119
MUT_ci300400a_cdk_PUBCHEM	0.2942	0.0000	0.0000
MUT_ci300400a_cdk_STANDARD	0.2942	0.0000	0.0000
MUT_ci300400a_rdkit_descriptors	0.2988	0.0000	0.0000
myocardial	0.3102	0.3867	0.4911
naticusdroid	0.3328	0.0000	0.0000
nci9	1.0000	1.0000	1.0000
ncRNA10%	0.0461	0.0000	0.0000
neo	0.7112	0.3815	0.4123
new-thyroid	0.9318	0.8871	0.8941
new-thyroidT	1.0000	1.0000	1.0000
newspop	0.3187	0.0000	0.0000
NHANES_age_prediction	1.0000	1.0000	1.0000
nomao	0.4167	0.0000	0.0000
nursery	0.9976	0.9955	0.9955
obesity	0.9661	0.9613	0.9614
obs	1.0000	1.0000	1.0000
oh0-wc	0.0112	0.0000	0.0000
oh10-wc	0.0205	0.0000	0.0000
oh15-wc	0.0122	0.0000	0.0000
oh5-wc	0.0143	0.0000	0.0000
olive	0.9451	0.9339	0.9367
optdigits	0.9679	0.9624	0.9625
orlraws10P	0.0182	0.0000	0.0000
ozone1hr	0.4899	-0.0072	0.0000
p53-mutants10%	0.4992	0.0000	0.0000
parkinson	0.9915	0.9828	0.9830
particle	0.2191	0.0000	0.0000
pc1	0.5907	0.1483	0.1684
pcmac	0.2945	0.0000	0.0000
pediatric-leukemia	0.0159	0.0000	0.0000
pendigits	0.9917	0.9909	0.9909
period-10f	0.5950	0.1818	0.1890
persistence	0.8077	0.6133	0.6154
personalities	0.0074	0.0000	0.0000
pet-adoption	0.9376	0.8722	0.8751
phishing	0.9485	0.8968	0.8970
PhiUSIL10%	0.3637	0.0000	0.0000
phy	0.3346	0.0000	0.0000
Continued on next page			

Dataset	F1-macro	Kappa	MCC
pima	0.7044	0.4045	0.4086
pirvision	0.9977	0.9959	0.9959
placement	0.7888	0.5720	0.5776
plrx	0.4194	0.0000	0.0000
polya	0.2635	0.0000	0.0000
popularity	0.1591	0.0000	0.0000
post-operative	0.4000	0.0000	0.0000
postures	0.0690	0.0000	0.0000
pred-tox_mutagen_ref-desc	0.7357	0.4706	0.4714
prestige	0.6573	0.4808	0.5112
primary-tumor	0.4386	0.4545	0.4720
processed	0.4040	0.0000	0.0000
profb	0.6064	0.2126	0.2127
promoters	0.9083	0.8000	0.8165
puc-rio	0.0936	0.0000	0.0000
pufs-1281%	0.3333	0.0000	0.0000
pufs-6410%	0.3334	0.0000	0.0000
pulsar	0.9485	0.8950	0.8969
raisin	0.8904	0.7778	0.7809
rejafada	1.0000	1.0000	1.0000
relathe	1.0000	1.0000	1.0000
rice	0.3545	0.0000	0.0000
rocket	0.7099	0.4188	0.4198
RT_IOT2022	0.0054	0.0000	0.0000
satimage	0.8969	0.8884	0.8893
scadi	0.6984	0.6316	0.6860
schiller	0.8333	0.6087	0.6614
sclerosis	1.0000	1.0000	1.0000
secom	0.4834	0.0000	0.0000
secondary_mushroom	0.3568	0.0000	0.0000
seeds	0.9077	0.8571	0.8601
segment	0.9570	0.9443	0.9446
segmentation	0.8423	0.6841	0.6845
segmentO	1.0000	1.0000	1.0000
seismic	0.4819	-0.0074	0.0000
sens-2-gram	0.4648	0.0000	0.0000
sens-3-gram	0.4648	0.0000	0.0000
sens-4-gram	0.4648	0.0000	0.0000
sensorless	0.0151	0.0000	0.0000
shoppers	0.7928	0.5783	0.5847
sick	0.9205	0.8276	0.8402
sirtuin6	1.0000	1.0000	1.0000
smarket	0.9921	0.9840	0.9841
smk_can_187	0.3214	0.0000	0.0000
smoking	0.8227	0.6453	0.6454
soil_pollution	0.1785	-0.0205	0.0000
solar-flare	0.6407	0.7231	0.7261
sonar	0.7041	0.4000	0.4082
soybean	1.0000	1.0000	1.0000
spam-detection	0.8467	0.6925	0.6932
spambase	0.9499	0.8994	0.8998
spect	0.6403	0.2703	0.2786
spectf	0.8956	0.7692	0.7906
spectrometer	0.5756	0.6940	0.6970
squash-unstored	0.3419	0.0625	0.0772
startup	1.0000	1.0000	1.0000
steel_industry	0.8983	0.8698	0.8698
stellar	0.2486	0.0000	0.0000
Continued on next page			

Dataset	F1-macro	Kappa	MCC
stock	0.8069	0.5931	0.6116
stockb	0.9956	0.9934	0.9934
streaming	0.9960	0.9919	0.9919
stress	0.9845	0.9801	0.9805
student-depression	0.3693	0.0000	0.0000
student-habits	0.2459	-0.0412	0.0000
student-lifestyle	0.3403	0.3412	0.3450
student-weekend	0.3422	0.1804	0.2154
student-workday	0.1651	0.0000	0.0000
studentap	0.6426	0.3868	0.4032
swarm_aligned	0.4075	0.0000	0.0000
swarm_flocking	0.3333	0.0000	0.0000
swarm_grouped	0.3846	0.0000	0.0000
tae	0.5191	0.3000	0.3020
telco-churn	0.8727	0.7428	0.7453
texture	0.9811	0.9779	0.9780
theorem	1.0000	1.0000	1.0000
thoracic	0.4598	0.0000	0.0000
Thyroid_Diff	0.9365	0.8648	0.8728
tis	0.1984	0.0000	0.0000
titanic	0.7934	0.5163	0.5813
tourist	0.0444	0.0000	0.0000
trains	0.3333	0.0000	0.0000
transfusion	0.4416	-0.1023	0.0000
tuandromd	0.9686	0.9371	0.9371
turkish	0.7675	0.7000	0.7012
tvnews	0.2679	0.0000	0.0000
ur3_cobotops_grip	0.7773	0.4755	0.5364
ur3_cobotops_stop	0.8099	0.5935	0.6152
urban	0.8665	0.8252	0.8274
ustilago10%	0.0107	0.0000	0.0000
vehicle	0.6975	0.6483	0.6532
vote	0.9307	0.8605	0.8615
vowel	0.7106	0.6667	0.6706
wap-wc	0.0013	0.0000	0.0000
warpar10p	0.7059	0.7400	0.7553
warppie10p	1.0000	1.0000	1.0000
waveform	0.8404	0.7600	0.7601
weather-related	0.9794	0.9760	0.9761
weight-lift	0.0621	0.0000	0.0000
white-clover	0.2500	-0.5000	0.0000
wifi-loc	0.9850	0.9800	0.9800
wilt	0.9249	0.8495	0.8497
wine	1.0000	1.0000	1.0000
winequality-red	0.3600	0.5688	0.5729
winequality-white	0.3720	0.4954	0.5030
winnipeg10%	0.0307	0.0000	0.0000
wisc.bc	1.0000	1.0000	1.0000
yale	0.7318	0.7322	0.7416
yeast	0.4173	0.4840	0.4899
yeastCYT-POX	0.9047	0.7897	0.8078
yeastEXC	0.7431	0.4861	0.4861
yeastME1	0.9318	0.8538	0.8630
yeastME2	0.7170	0.3825	0.4197
zip	0.0162	0.0000	0.0000

3.1 Noise results at 5% ratio

Table 48: Detailed results for C5.0 5

Dataset	F1-macro	Kappa	MCC
abalone	0.1127	0.0881	0.0895
abalone19	0.4982	0.0000	0.0000
accelerometer	0.4955	0.0000	0.0000
ads	0.9277	0.8485	0.8551
adult	0.8018	0.5978	0.6031
advanced-iot	1.0000	1.0000	1.0000
AID_1431	0.4772	0.0000	0.0000
AID_1431_KlekotaRothFingerprinter	0.4772	0.0000	0.0000
AID_1431_MACCSFingerprinter	0.4772	0.0000	0.0000
AID_1878	0.5517	0.0938	0.1003
AID_602330	0.4894	0.0000	0.0000
AID_652128	0.3080	-0.0312	0.0000
AID1284red	0.4545	-0.0485	0.0000
AID1608Morered	0.4824	0.0000	0.0000
AID1608red	0.4850	0.0000	0.0000
AID362red	0.4965	0.0000	0.0000
AID373AID439red	0.5000	0.0000	0.0000
AID373red	0.4997	0.0000	0.0000
AID456red	0.4992	0.0000	0.0000
AID604	0.4991	0.0000	0.0000
AID604AID644_AllRed	0.4997	0.0000	0.0000
AID687AID721red	0.4998	0.0000	0.0000
AID687red	0.4992	0.0000	0.0000
AID688red	0.4977	0.0000	0.0000
AID721morered	0.4375	0.0000	0.0000
AID721red	0.4375	0.0000	0.0000
AID746AID1284red	0.4997	0.0000	0.0000
AID746red	0.4985	0.0000	0.0000
aids	0.8473	0.6892	0.6944
air_pollution	0.1424	0.0239	0.0293
alcohol	0.5223	0.5723	0.5876
all-aml	1.0000	1.0000	1.0000
anneal	0.9858	0.9759	0.9762
antivirus	1.0000	1.0000	1.0000
anuran-f-b	1.0000	1.0000	1.0000
anxiety	0.1273	0.0144	0.0145
apple-quality	0.8406	0.6800	0.6812
aps-failure	0.4955	0.0000	0.0000
arabidopsis1%	0.4980	0.0000	0.0000
arcene	0.7363	0.4444	0.4714
arrhythmia	0.6468	0.6514	0.6545
auction	0.9889	0.9776	0.9778
audiology	0.9658	0.9472	0.9495
audit-risk	1.0000	1.0000	1.0000
autism-adolescent	1.0000	1.0000	1.0000
autism-adult	1.0000	1.0000	1.0000
autism-child	1.0000	1.0000	1.0000
autos	0.9024	0.8693	0.8721
avila	0.9971	0.9975	0.9975
balance	0.6106	0.7627	0.7656
bank	0.7516	0.4890	0.5006
bankruptcy	1.0000	1.0000	1.0000
bio	0.4978	0.0000	0.0000
biodeg	0.8713	0.7412	0.7426
biomed	1.0000	1.0000	1.0000
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Dataset	F1-macro	Kappa	MCC
bitcoin10%	0.1837	0.1334	0.2231
body-perf	0.7409	0.6517	0.6553
brain-tumor	0.5000	-0.0000	0.0000
breast-cancer	0.5913	0.1818	0.1826
breast-cancer-ma	0.3529	0.0000	0.0000
breast-tissue	0.8611	0.7800	0.7959
bridges	0.6525	0.6970	0.7098
bub12at310k-hg16-17	0.7044	0.3743	0.4001
cad	1.0000	1.0000	1.0000
cancer	0.9841	0.9677	0.9682
cancer-uae	0.3080	-0.0138	0.0000
car-insurance	0.8138	0.6222	0.6274
cardiotocography-nsp	0.8531	0.7946	0.8001
cardiovascular	0.7364	0.4707	0.4728
cargo2k	1.0000	1.0000	1.0000
cars	0.8335	0.7722	0.7749
ccds10%	0.4902	0.0000	0.0000
cdc_diabetes	0.4236	0.1849	0.2406
census	0.4835	0.0000	0.0000
cervical-B	0.7962	0.5764	0.5897
cervical-H	0.4881	0.0000	0.0000
cervical-S	0.8890	0.7514	0.7758
children-anemia	0.9342	0.9116	0.9126
chrom19	0.9158	0.8160	0.8302
chrom211%	0.4998	0.0000	0.0000
churn	0.7585	0.4988	0.5148
cjs	1.0000	1.0000	1.0000
ckd	1.0000	1.0000	1.0000
clave	0.7062	0.7347	0.7384
cll_sub_111	0.7856	0.5814	0.5886
cmc	0.5743	0.3555	0.3613
cnae-9	0.9369	0.9271	0.9275
codon_usage	0.8039	0.9123	0.9125
coil20	0.9870	0.9854	0.9855
college	0.8659	0.7301	0.7317
collins	1.0000	1.0000	1.0000
colon-tumor	0.7500	0.4000	0.5000
colposcopies-1	0.6009	0.1989	0.2015
colposcopies-2	0.6987	0.3927	0.3973
colposcopies-4	0.5641	0.1212	0.1268
colposcopies-5	0.4423	-0.0610	0.0000
colposcopies-c	0.6545	0.3072	0.3087
column-2c	0.8524	0.7048	0.7048
column-3c	0.7395	0.6853	0.6865
connect-4	0.7472	0.5938	0.6347
coupon	0.7313	0.4594	0.4626
covtype	0.0763	0.0000	0.0000
covtypeCD	0.9745	0.9490	0.9491
covtypeT	0.9410	0.8817	0.8819
crabs	0.9141	0.8667	0.8785
creditcard_trans	0.8619	0.7229	0.7236
crowdsourced	0.8614	0.8793	0.8795
cryotherapy	0.6667	0.1818	0.3162
cultivars	0.3630	0.3871	0.3931
cybersecurity	0.1714	0.0070	0.0070
cyclopentane	0.7403	0.4793	0.4807
cylinder-bands	0.7651	0.5211	0.5302
datatrieve	0.4800	0.0000	0.0000
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Dataset	F1-macro	Kappa	MCC
dating	0.0982	-0.0021	0.0000
dbworld	0.7083	0.4167	0.4167
default	0.7114	0.3777	0.4151
dementia	1.0000	1.0000	1.0000
deposit	0.7408	0.4671	0.4788
depressed	0.4542	0.0000	0.0000
dermatology	0.9429	0.9325	0.9325
desharnais	0.5106	0.3846	0.4173
df_final	0.7358	0.5455	0.5855
DIA	0.6753	0.3488	0.3504
diabetes-100k	0.8898	0.7641	0.7782
diagnosis	1.0000	1.0000	1.0000
diamonds	1.0000	1.0000	1.0000
diamonds_all	0.7913	0.7043	0.7085
dishonest	1.0000	1.0000	1.0000
dlbcl-nih	0.6009	0.1940	0.2014
dlbcl-stanford	0.5833	0.1667	0.1667
dna0.1%	0.4993	0.0000	0.0000
dota2	0.5804	0.1602	0.1607
drebin	0.9818	0.9636	0.9636
dropout	0.7225	0.6520	0.6570
ecoli	0.6893	0.7521	0.7617
ecoliCP-IM	1.0000	1.0000	1.0000
ecoliM	0.8253	0.6341	0.6500
ecoliMU	0.4677	-0.0476	0.0000
ecoliOM	0.8514	0.6526	0.6960
ecommerce	0.2802	0.0408	0.0409
euthyroid	0.9064	0.8103	0.8126
fakenews	0.3355	0.0000	0.0000
fbis-wc	0.7319	0.7779	0.7821
finance	0.6470	0.2524	0.2912
financial-risk	0.8690	0.9133	0.9136
flags	0.5799	0.6805	0.6875
forest	0.8093	0.7610	0.7661
gas	0.9953	0.9939	0.9939
gastrointestinal	0.8368	0.7935	0.7990
gender	0.4412	0.0787	0.1096
german	0.7237	0.4189	0.4452
gestures	0.9235	0.8973	0.8975
gina	0.9482	0.8963	0.8965
gisette	0.9643	0.9286	0.9286
glass	0.5280	0.5243	0.5449
glass-g2	0.7333	0.4667	0.4667
glassBWFP	0.8740	0.7175	0.7480
glassBWNFP	0.7042	0.4000	0.4082
glassContainers	0.8483	0.6452	0.6901
glassNW	1.0000	1.0000	1.0000
glassTableware	0.4884	0.0000	0.0000
GlaucomaM	0.7389	0.4751	0.4778
gli_85	0.2000	0.0000	0.0000
glioma	0.8333	0.7059	0.7500
glioma-grade	0.8845	0.7610	0.7689
green	0.8276	0.6000	0.6547
gsalc	0.7358	0.7313	0.7660
haberman	0.4231	0.0000	0.0000
hapt	0.8423	0.9535	0.9535
har	0.9912	0.9897	0.9897
harth10%	0.0096	0.0000	0.0000
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Dataset	F1-macro	Kappa	MCC
health-activity	0.2159	-0.0157	0.0000
heart	0.8064	0.6110	0.6128
heart-c	0.6295	0.2534	0.2588
heart-failure	0.9791	0.9577	0.9582
heart-quantum	0.8768	0.7244	0.7536
hepatitis	0.6481	0.2857	0.2942
higher	0.2500	0.0610	0.0625
hinselmann	0.4444	0.0000	0.0000
hitters	0.9373	0.8745	0.8745
hiv1-proteasa	0.8322	0.6513	0.6631
hiva	0.4897	-0.0084	0.0000
horse	0.5546	0.3256	0.3574
hotel-reservartions	0.8881	0.7757	0.7762
hr	0.4633	0.0000	0.0000
ht-sensor	0.1650	0.0000	0.0000
htru2	0.9406	0.8779	0.8811
hypothyroid	0.7333	0.9384	0.9390
immuno-therapy	0.4375	0.0000	0.0000
ionosphere	0.9686	0.9353	0.9373
iris	0.9333	0.8993	0.9054
irish	1.0000	1.0000	1.0000
isolet	0.9008	0.8905	0.8911
jm1	0.6269	0.2166	0.2439
jvowels	0.9677	0.9647	0.9647
kc1-class-level-numericdefect	0.1600	0.0441	0.0493
kc1-class-level-top5percentDF	0.4828	0.0000	0.0000
kc2	0.6935	0.3863	0.3869
kdc-4007	0.0345	0.0000	0.0000
kddcup991%	0.7371	0.9959	0.9959
kidney	0.1778	0.0000	0.0000
kidney-disease	1.0000	1.0000	1.0000
la2s-wc	0.8299	0.8174	0.8184
labor	0.8537	0.6667	0.7071
leaf	0.7413	0.7530	0.7585
led24	0.7593	0.7167	0.7188
lenses	0.5714	0.5000	0.6124
letter	0.9515	0.9495	0.9496
linkage1%	0.9522	0.9044	0.9044
loan	0.9850	0.9701	0.9701
lrs	0.7823	0.8458	0.8525
lung_discrete	0.5455	0.5294	0.5400
lymphography	0.4934	0.4510	0.4560
lymphoma2	0.7895	0.8500	0.8645
machine-failure	0.9237	0.8472	0.8474
magic04	0.8512	0.7005	0.7024
malware	0.9554	0.9068	0.9108
mammography	0.8115	0.6225	0.6231
marketing	0.6912	0.3452	0.3738
mba	0.3041	0.0000	0.0000
mental-disorders	0.9270	0.8889	0.8972
messidor	0.6038	0.2045	0.2076
meter-A	1.0000	1.0000	1.0000
meter-B	0.7083	0.4808	0.5112
meter-C	0.9583	0.9234	0.9274
meter-D	0.9175	0.9217	0.9260
mfeat-fac	0.9602	0.9556	0.9557
mfeat-fou	0.8007	0.7778	0.7788
mfeat-kar	0.9463	0.9389	0.9392
Continued on next page			

Dataset	F1-macro	Kappa	MCC
mfeat-mor	0.7223	0.6889	0.6895
mfeat-pix	0.9311	0.9222	0.9225
mfeat-zer	0.7581	0.7444	0.7452
mice-prot	1.0000	1.0000	1.0000
milk	0.9918	0.9855	0.9856
mines	0.6296	0.5570	0.5601
mobile	0.8700	0.8576	0.8580
monks-1	1.0000	1.0000	1.0000
monks-3	0.9642	0.9285	0.9285
mushroom	0.9975	0.9951	0.9951
music	0.5303	0.4107	0.4130
MUT_ci300400a_cdk_ECFP2	0.7922	0.5816	0.5844
MUT_ci300400a_cdk_ECFP4	0.7800	0.5547	0.5600
MUT_ci300400a_cdk_ECFP6	0.7709	0.5411	0.5417
MUT_ci300400a_cdk_ESTATE	0.7398	0.4781	0.4795
MUT_ci300400a_cdk_EXTENDED	0.8228	0.6450	0.6455
MUT_ci300400a_cdk_FCFP2	0.7965	0.5920	0.5930
MUT_ci300400a_cdk_FCFP4	0.7713	0.5425	0.5426
MUT_ci300400a_cdk_FCFP6	0.7960	0.5895	0.5919
MUT_ci300400a_cdk_MACCS	0.7962	0.5923	0.5924
MUT_ci300400a_cdk_PUBCHEM	0.8189	0.6365	0.6378
MUT_ci300400a_cdk_STANDARD	0.8080	0.6155	0.6160
MUT_ci300400a_rdkit_descriptors	0.8504	0.7008	0.7008
myocardial	0.3102	0.3867	0.4911
naticusdroid	0.9739	0.9478	0.9478
nci9	0.3333	0.2000	0.2148
ncRNA10%	0.6852	0.8271	0.8290
neo	0.6835	0.2213	0.3150
new-thyroid	1.0000	1.0000	1.0000
new-thyroidT	1.0000	1.0000	1.0000
newspop	0.6668	0.3315	0.3336
NHANES_age_prediction	1.0000	1.0000	1.0000
nomao	0.9548	0.9096	0.9096
nursery	0.9976	0.9955	0.9955
obesity	0.9516	0.9446	0.9448
obs	1.0000	1.0000	1.0000
oh0-wc	0.9507	0.9322	0.9330
oh10-wc	0.7856	0.7611	0.7649
oh15-wc	0.8676	0.8516	0.8540
oh5-wc	0.7791	0.7270	0.7348
olive	0.9385	0.9343	0.9362
optdigits	0.9562	0.9486	0.9488
orlraws10P	0.7467	0.7778	0.7957
ozone1hr	0.4909	0.0000	0.0000
p53-mutants10%	0.4992	0.0000	0.0000
parkinson	0.9915	0.9828	0.9830
particle	0.9221	0.8442	0.8442
pc1	0.5907	0.1483	0.1684
pcmac	0.3681	0.0000	0.0000
pediatric-leukemia	0.7972	0.7505	0.7521
pendigits	0.9860	0.9848	0.9848
period-10f	0.6582	0.3077	0.3162
persistence	0.8243	0.6478	0.6486
personalities	0.9635	0.9611	0.9611
pet-adoption	0.9376	0.8722	0.8751
phishing	0.9528	0.9053	0.9056
PhiUSIIL10%	1.0000	1.0000	1.0000
phy	0.7285	0.4567	0.4569
Continued on next page			

Dataset	F1-macro	Kappa	MCC
pima	0.6565	0.2985	0.3121
pirvision	0.9894	0.9815	0.9815
placement	0.7934	0.5860	0.5868
plrx	0.4194	0.0000	0.0000
polya	0.7319	0.4632	0.4638
popularity	0.4333	0.2765	0.2906
post-operative	0.4000	0.0000	0.0000
postures	0.9915	0.9894	0.9894
pred-tox_mutagen_ref-desc	0.7391	0.4706	0.4781
prestige	0.6573	0.4808	0.5112
primary-tumor	0.3619	0.3819	0.3919
processed	1.0000	1.0000	1.0000
profb	0.6240	0.2136	0.2423
promoters	0.9083	0.8000	0.8165
puc-rio	0.9902	0.9925	0.9925
pufs-1281%	0.3333	0.0000	0.0000
pufs-6410%	0.3334	0.0000	0.0000
pulsar	0.9509	0.8996	0.9018
raisin	0.9333	0.8667	0.8667
rejafada	1.0000	1.0000	1.0000
relathe	1.0000	1.0000	1.0000
rice	0.9856	0.9711	0.9711
rocket	0.5827	0.1578	0.1649
RT_IOT2022	0.9760	0.9947	0.9947
satimage	0.8939	0.8847	0.8855
scadi	0.6984	0.6316	0.6860
schiller	0.8333	0.6087	0.6614
sclerosis	1.0000	1.0000	1.0000
secom	0.4817	-0.0118	0.0000
secondary_mushroom	0.9998	0.9997	0.9997
seeds	0.9077	0.8571	0.8601
segment	0.9610	0.9494	0.9494
segmentation	0.8070	0.6139	0.6141
segmentO	1.0000	1.0000	1.0000
seismic	0.4830	0.0000	0.0000
sens-2-gram	0.6687	0.0675	0.1869
sens-3-gram	0.6323	0.1412	0.2141
sens-4-gram	0.5838	0.0286	0.0793
sensorless	0.9959	0.9955	0.9955
shoppers	0.7948	0.5857	0.5891
sick	0.8957	0.7784	0.7902
sirtuin6	1.0000	1.0000	1.0000
smarket	0.9921	0.9840	0.9841
smk_can_187	0.3214	0.0000	0.0000
smoking	0.7708	0.5412	0.5417
soil_pollution	0.2313	0.0408	0.0410
solar-flare	0.5999	0.6778	0.6860
sonar	0.6508	0.3000	0.3015
soybean	0.9781	0.9839	0.9841
spam-detection	0.8335	0.6394	0.6633
spambase	0.9270	0.8531	0.8540
spect	0.4444	0.0000	0.0000
spectf	0.8956	0.7692	0.7906
spectrometer	0.5943	0.6740	0.6769
squash-unstored	0.7059	0.2857	0.4082
startup	1.0000	1.0000	1.0000
steel_industry	0.8876	0.8552	0.8554
stellar	0.9717	0.9561	0.9562
Continued on next page			

Dataset	F1-macro	Kappa	MCC
stock	0.9147	0.8224	0.8291
stockb	0.9956	0.9934	0.9934
streaming	0.9980	0.9960	0.9960
stress	0.9690	0.9603	0.9609
student-depression	0.8254	0.6501	0.6508
student-habits	0.1830	0.0041	0.0041
student-lifestyle	0.3520	0.4073	0.4094
student-weekend	0.3414	0.1577	0.1618
student-workday	0.1630	-0.0191	0.0000
studentap	0.3778	0.0545	0.0545
swarm_aligned	0.9971	0.9942	0.9942
swarm_flocking	0.9983	0.9967	0.9967
swarm_grouped	0.3846	0.0000	0.0000
tae	0.5442	0.3000	0.3062
telco-churn	0.8834	0.7662	0.7669
texture	0.9798	0.9759	0.9760
theorem	1.0000	1.0000	1.0000
thoracic	0.4598	0.0000	0.0000
Thyroid_Diff	0.9681	0.9343	0.9363
tis	0.8711	0.7404	0.7421
titanic	0.7833	0.5545	0.5660
tourist	0.5250	0.6364	0.6848
trains	1.0000	1.0000	1.0000
transfusion	0.5934	0.1848	0.1865
tuandromd	0.9746	0.9492	0.9492
turkish	0.7575	0.6667	0.6740
tvnews	0.9455	0.8911	0.8911
ur3_cobotops_grip	0.6227	0.1348	0.1945
ur3_cobotops_stop	0.8042	0.5964	0.6063
urban	0.7854	0.7739	0.7758
ustilago10%	0.4973	0.0000	0.0000
vehicle	0.7423	0.6825	0.6952
vote	0.9307	0.8605	0.8615
vowel	0.6711	0.5778	0.5910
wap-wc	0.5945	0.6986	0.7022
warpar10p	0.7082	0.6556	0.6644
warppie10p	1.0000	1.0000	1.0000
waveform	0.8201	0.7300	0.7301
weather-related	0.9725	0.9673	0.9675
weight-lift	0.9992	0.9990	0.9990
white-clover	0.5000	0.0000	0.0000
wifi-loc	0.9902	0.9867	0.9868
wilt	0.8962	0.7903	0.7922
wine	0.8033	0.7000	0.7045
winequality-red	0.3252	0.4619	0.4644
winequality-white	0.4492	0.4658	0.4672
winnipeg10%	0.9928	0.9887	0.9888
wisc.bc	0.9817	0.9627	0.9633
yale	0.6600	0.7311	0.7437
yeast	0.4394	0.4618	0.4642
yeastCYT-POX	0.4896	0.0000	0.0000
yeastEXC	0.4932	0.0000	0.0000
yeastME1	0.7155	0.4272	0.4301
yeastME2	0.4879	0.0000	0.0000
zip	0.9420	0.9398	0.9399

Table 49: Detailed results for CALIFOREST 5

Dataset	F1-macro	Kappa	MCC
abalone	0.1264	0.0652	0.0674
abalone19	0.4996	0.0000	0.0000
accelerometer	0.4924	0.0000	0.0000
ads	0.9552	0.9020	0.9093
advanced-iot	0.9933	0.9978	1.0000
AID_1431	0.4755	0.0000	0.0000
AID_1431_KlekotaRothFingerprinter	0.4771	0.0000	0.0000
AID_1431_MACCSFingerprinter	0.4766	0.0000	0.0000
AID_1878	0.5819	0.0629	0.1160
AID_602330	0.4853	0.0000	0.0000
AID_652128	0.3109	0.0000	0.0000
AID1284red	0.4561	-0.0486	0.0000
AID1608Moredred	0.4791	0.0000	0.0000
AID1608red	0.4804	0.0000	0.0000
AID362red	0.4941	0.0000	0.0000
AID456red	0.4975	0.0000	0.0000
AID688red	0.4966	0.0000	0.0000
AID721moredred	0.4361	0.0000	0.0000
AID721red	0.4357	0.0000	0.0000
aids	0.8311	0.6793	0.6836
air_pollution	0.0813	-0.0039	0.0000
alcohol	0.5578	0.6347	0.6554
all-aml	0.9980	0.9963	0.9915
anneal	0.9870	0.9740	0.9765
antivirus	1.0000	0.9890	0.9959
anuran-f-b	0.9939	1.0000	0.9905
anxiety	0.1278	-0.0068	0.0000
apple-quality	0.8619	0.7300	0.7326
arcene	0.7666	0.5096	0.5304
arrhythmia	0.5796	0.5255	0.5339
auction	0.9868	0.9975	0.9912
audiology	0.6200	0.7297	0.7415
audit-risk	0.9929	0.9971	1.0000
autism-adolescent	0.9884	0.9962	0.9981
autism-adult	0.9942	0.9987	0.9924
autism-child	0.9929	0.9994	1.0000
autos	0.8511	0.7938	0.8073
avila	0.9736	0.9646	0.9510
balance	0.6142	0.7852	0.7951
bankruptcy	0.9972	0.9987	0.9869
bio	0.9006	0.7873	0.8008
biodeg	0.8925	0.7943	0.8010
biomed	0.9984	0.9993	0.9971
body-perf	0.7220	0.6240	0.6343
brain-tumor	0.3319	0.0000	0.0000
breast-cancer	0.7261	0.4276	0.4373
breast-cancer-ma	0.5347	0.0678	0.0689
breast-tissue	0.5804	0.5625	0.5792
bridges	0.7818	0.8571	0.8659
bub12at310k-hg16-17	0.6927	0.3373	0.3747
cad	0.9922	1.0000	0.9961
cancer	0.9996	0.9927	0.9977
cancer-uae	0.2193	0.0000	0.0000
car-insurance	0.8124	0.6349	0.6362
cardiotocography-nsp	0.8857	0.8275	0.8246
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Dataset	F1-macro	Kappa	MCC
cardiovascular	0.7209	0.4773	0.4671
cargo2k	1.0000	0.9955	0.9961
cars	0.5851	0.5235	0.5245
cdc_diabetes	0.4174	0.1671	0.2294
cervical-B	0.7944	0.5725	0.5889
cervical-H	0.6747	0.3127	0.3293
cervical-S	0.8896	0.7501	0.7696
children-anemia	0.9265	0.9090	0.9082
chrom211%	0.4991	0.0000	0.0000
churn	0.7403	0.4534	0.4776
cjs	0.9775	0.9773	0.9707
ckd	0.9957	0.9977	0.9990
clave	0.7161	0.7267	0.7336
cll_sub_111	0.7959	0.5981	0.5985
cmc	0.5856	0.3680	0.3783
cnae-9	0.9318	0.9337	0.9234
codon_usage	0.7743	0.8984	0.9033
coil20	1.0000	0.9980	1.0000
college	0.8995	0.8055	0.8008
collins	0.8896	0.8790	0.8975
colon-tumor	0.7429	0.4013	0.4966
colposcopies-1	0.7589	0.5198	0.5256
colposcopies-2	0.6867	0.2145	0.3450
colposcopies-4	0.7770	0.4627	0.5483
colposcopies-5	0.5733	0.1383	0.1439
colposcopies-c	0.7526	0.5053	0.5038
column-2c	0.8484	0.7053	0.7011
column-3c	0.7262	0.6804	0.6850
coupon	0.7285	0.4482	0.4581
covtypeCD	0.9616	0.9302	0.9223
crabs	0.8236	0.7356	0.7525
crowdsourced	0.8716	0.8942	0.8865
cryotherapy	0.7351	0.3715	0.4795
cultivars	0.4405	0.4774	0.4868
cybersecurity	0.1068	-0.0185	0.0000
cyclopentane	0.7089	0.4088	0.4122
cylinder-bands	0.7698	0.4964	0.5301
datatrieve	0.4798	0.0000	0.0000
dbworld	0.9986	1.0000	0.9945
default	0.6975	0.3712	0.4170
dementia	1.0000	0.9964	0.9908
depressed	0.4552	0.0000	0.0000
dermatology	0.9360	0.9308	0.9302
desharnais	0.2930	-0.0213	0.0000
df_final	0.7525	0.5456	0.6162
DIA	0.7792	0.5513	0.5638
diagnosis	1.0000	0.9931	1.0000
diamonds	0.9930	0.9879	1.0000
diamonds_all	0.8002	0.7052	0.6913
dishonest	0.9979	1.0000	0.9968
dlbcl-nih	0.3524	-0.0816	0.0000
dlbcl-stanford	0.8271	0.6170	0.6687
drebin	0.9672	0.9326	0.9334
dropout	0.6992	0.6241	0.6313
ecoli	0.7613	0.8760	0.8817
ecoliCP-IM	0.9955	1.0000	0.9922
ecoliM	0.9157	0.8278	0.8331
ecoliMU	0.7658	0.5253	0.5286
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Dataset	F1-macro	Kappa	MCC
ecoliOM	0.8462	0.6501	0.7011
ecommerce	0.2151	0.0077	0.0092
euthyroid	0.9180	0.8555	0.8500
fakenews	0.5285	0.0631	0.0684
fbis-wc	0.7663	0.8050	0.7964
finance	0.6373	0.2812	0.2804
financial-risk	0.6788	0.8117	0.8077
flags	0.5338	0.5700	0.5860
forest	0.8995	0.8936	0.8936
gas	0.9889	0.9892	0.9852
gastrointestinal	0.7113	0.4918	0.5135
gender	0.4614	0.1208	0.1313
german	0.6705	0.3299	0.3431
gestures	0.9311	0.9021	0.9073
gina	0.9468	0.8906	0.8949
gisette	0.9676	0.9252	0.9363
glass	0.7151	0.6785	0.6890
glass-g2	0.9324	0.8620	0.8748
glassBWFP	0.9983	0.9931	0.9963
glassBWNFP	0.8400	0.6660	0.6660
glassContainers	0.4751	0.0000	0.0000
glassNW	1.0000	0.9892	0.9982
glassTableware	0.9948	0.9923	0.9912
GlaucomaM	0.8377	0.6842	0.6863
gli_85	1.0000	0.9997	0.9934
glioma	0.8328	0.7042	0.7455
glioma-grade	0.8915	0.7810	0.7824
green	0.6087	0.2095	0.2180
gsalc	0.9082	0.8588	0.8807
haberman	0.4101	-0.0625	0.0000
hapt	0.8710	0.9460	0.9450
har	0.9802	0.9858	0.9873
health-activity	0.2160	0.0000	0.0000
heart	0.7605	0.5281	0.5314
heart-c	0.9349	0.8665	0.8686
heart-failure	0.9755	0.9537	0.9546
heart-quantum	0.8845	0.7638	0.7803
hepatitis	0.7854	0.5828	0.5824
higher	0.1330	0.0830	0.0899
hinselmann	0.4403	0.0000	0.0000
hitters	0.8407	0.6843	0.6859
hiv1-proteasa	0.7750	0.5265	0.5439
hiva	0.6178	0.1101	0.1719
horse	0.6196	0.3733	0.3784
hotel-reservartions	0.8830	0.7636	0.7662
hr	0.4595	0.0000	0.0000
htru2	0.9328	0.8669	0.8604
hypothyroid	0.7345	0.9658	0.9669
immuno-therapy	0.9934	0.9960	0.9953
ionosphere	0.9011	0.8061	0.8050
iris	0.9372	0.8994	0.9000
irish	0.9845	0.9506	0.9542
isolet	0.9112	0.9014	0.9012
jm1	0.6452	0.1922	0.2623
fvowels	0.9611	0.9614	0.9640
kc1-class-level-numericdefect	0.3165	0.2774	0.2967
kc1-class-level-top5percentDF	0.4780	0.0000	0.0000
kc2	0.5515	0.1010	0.1074
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Dataset	F1-macro	Kappa	MCC
kidney	0.1768	0.0000	0.0000
kidney-disease	0.9904	0.9959	0.9934
la2s-wc	0.8340	0.8169	0.8197
labor	0.8526	0.6701	0.7050
leaf	0.6043	0.6522	0.6629
led24	0.7221	0.6537	0.6651
lenses	0.9976	0.9804	0.9853
letter	0.9464	0.9421	0.9452
linkage1%	0.9449	0.8959	0.9033
loan	0.9944	0.9763	0.9770
lrs	0.6316	0.7921	0.7994
lung_discrete	0.9962	0.9896	0.9945
lymphography	0.4928	0.4469	0.4573
lymphoma2	0.7798	0.8541	0.8562
machine-failure	0.9360	0.8674	0.8701
magic04	0.8583	0.7146	0.7201
malware	0.9897	0.9874	0.9983
mammography	0.8203	0.6588	0.6677
marketing	0.7731	0.4754	0.5376
mba	0.3840	0.0784	0.1165
mental-disorders	0.8423	0.7739	0.7807
messidor	0.6683	0.3472	0.3471
meter-A	0.7221	0.3299	0.4444
meter-B	0.9950	0.9921	0.9923
meter-C	0.9334	0.9213	0.9231
meter-D	0.9954	0.9977	1.0000
mfeat-fac	0.9445	0.9279	0.9331
mfeat-fou	0.8250	0.8072	0.8045
mfeat-kar	0.9510	0.9356	0.9338
mfeat-mor	0.7113	0.6771	0.6883
mfeat-pix	0.9677	0.9644	0.9624
mfeat-zer	0.8376	0.8256	0.8365
mice-prot	0.9859	0.9836	0.9760
milk	1.0000	1.0000	1.0000
mines	0.5668	0.4455	0.4563
mobile	0.9442	0.9297	0.9368
monks-1	1.0000	1.0000	0.9953
monks-3	0.9687	0.9302	0.9258
mushroom	1.0000	0.9939	1.0000
music	0.5448	0.4120	0.4148
MUT_ci300400a_cdk_ECFP2	0.7597	0.5263	0.5250
MUT_ci300400a_cdk_ECFP4	0.7757	0.5559	0.5595
MUT_ci300400a_cdk_ECFP6	0.7452	0.4935	0.4969
MUT_ci300400a_cdk_ESTATE	0.7475	0.4956	0.4959
MUT_ci300400a_cdk_EXTENDED	0.8053	0.6134	0.6143
MUT_ci300400a_cdk_FCFP2	0.7519	0.5047	0.5022
MUT_ci300400a_cdk_FCFP4	0.7245	0.4505	0.4519
MUT_ci300400a_cdk_FCFP6	0.7540	0.4995	0.5051
MUT_ci300400a_cdk_MACCS	0.8087	0.6200	0.6227
MUT_ci300400a_cdk_PUBCHEM	0.8154	0.6320	0.6373
MUT_ci300400a_cdk_STANDARD	0.8061	0.6120	0.6062
MUT_ci300400a_rdkit_descriptors	0.8189	0.6572	0.6582
myocardial	0.3090	0.3867	0.4925
naticusdroid	0.9669	0.9319	0.9347
nci9	0.7890	0.8016	0.8149
neo	0.6766	0.2174	0.3126
new-thyroid	0.9954	0.9924	1.0000
new-thyroidT	0.9932	0.9941	0.9995
Continued on next page			

Dataset	F1-macro	Kappa	MCC
NHANES_age_prediction	0.9990	0.9984	0.9970
nursery	0.9881	0.9777	0.9789
obesity	0.9190	0.9078	0.9033
obs	0.9734	0.9877	0.9897
oh0-wc	0.9240	0.9080	0.9138
oh10-wc	0.7783	0.7771	0.7706
oh15-wc	0.9001	0.8730	0.8759
oh5-wc	0.8696	0.8255	0.8217
olive	0.9396	0.9311	0.9372
optdigits	0.9605	0.9506	0.9514
orlraws10P	0.9925	0.9950	0.9914
ozone1hr	0.4862	0.0000	0.0000
p53-mutants10%	0.5013	0.0000	0.0000
parkinson	0.9857	0.9705	0.9804
particle	0.9083	0.8170	0.8121
pc1	0.6315	0.2686	0.2757
pcmac	0.3659	-0.0102	0.0000
pediatric-leukemia	0.7369	0.7347	0.7497
pendigits	0.9792	0.9755	0.9787
period-10f	0.8697	0.7247	0.7554
persistence	0.8272	0.6576	0.6593
pet-adoption	0.9386	0.8732	0.8781
phishing	0.9510	0.9079	0.9046
PhiUSIIL10%	1.0000	0.9972	0.9952
pima	0.6570	0.2707	0.3090
pirvision	0.9804	0.9665	0.9666
placement	0.7859	0.5746	0.5762
plrx	0.4173	0.0000	0.0000
polya	0.7601	0.5146	0.5126
post-operative	0.3978	0.0000	0.0000
pred-tox_mutagen_ref-desc	0.7069	0.4101	0.4135
prestige	0.8784	0.8307	0.8438
primary-tumor	0.3458	0.3515	0.3598
profb	0.6773	0.2540	0.3369
promoters	0.9055	0.8002	0.8191
pulsar	0.9474	0.9029	0.9072
raisin	0.8814	0.7787	0.7806
rejafada	1.0000	0.9989	0.9958
relathe	1.0000	0.9967	0.9933
rice	0.9818	0.9696	0.9722
rocket	0.6831	0.3696	0.3712
satimage	0.8769	0.8714	0.8775
scadi	0.7003	0.6377	0.6759
schiller	0.8383	0.6031	0.6588
sclerosis	0.9575	0.9251	0.9265
secom	0.4804	0.0000	0.0000
seeds	0.9579	0.9282	0.9316
segment	0.9587	0.9527	0.9435
segmentation	0.8409	0.6720	0.6765
segmentO	0.9773	0.9722	0.9704
seismic	0.4812	0.0000	0.0000
sens-2-gram	0.6179	0.0611	0.1403
sens-3-gram	0.6690	0.2046	0.2961
sens-4-gram	0.5999	0.1230	0.1646
shoppers	0.7755	0.5498	0.5605
sick	0.9037	0.7936	0.8151
sirtuin6	0.9905	0.9941	0.9974
smarket	0.9820	0.9826	0.9816
Continued on next page			

Dataset	F1-macro	Kappa	MCC
smk_can_187	0.6909	0.3508	0.3874
smoking	0.7716	0.5413	0.5310
soil_pollution	0.2411	0.0045	0.0163
solar-flare	0.5738	0.6843	0.6849
sonar	0.6995	0.3963	0.3991
soybean	0.9818	0.9693	0.9605
spam-detection	0.8805	0.7635	0.7599
spambase	0.9226	0.8594	0.8598
spect	0.4446	0.0000	0.0000
spectf	0.8560	0.6971	0.7082
spectrometer	0.5733	0.6545	0.6526
squash-unstored	1.0000	0.9951	1.0000
startup	0.9838	0.9863	0.9698
steel_industry	0.9016	0.8551	0.8550
stellar	0.9732	0.9487	0.9506
stock	0.8062	0.6088	0.6137
stockb	0.9933	0.9838	0.9859
streaming	0.9923	0.9772	0.9816
stress	0.9789	0.9757	0.9798
student-depression	0.8179	0.6287	0.6335
student-habits	0.2073	0.0169	0.0525
student-lifestyle	0.3609	0.4179	0.4206
student-weekend	0.1946	0.0782	0.0878
student-workday	0.2916	0.2217	0.3446
studentap	0.4627	0.3714	0.4034
tae	0.6202	0.4000	0.4217
telco-churn	0.8563	0.7114	0.7184
texture	0.9809	0.9617	0.9667
theorem	0.9842	0.9705	0.9718
thoracic	0.4601	0.0000	0.0000
Thyroid_Diff	0.9333	0.8632	0.8720
tis	0.8827	0.7774	0.7749
titanic	0.7906	0.5142	0.5781
tourist	0.5179	0.6409	0.6858
trains	0.3282	0.0000	0.0000
transfusion	0.5980	0.1973	0.2081
tuandromd	0.9717	0.9551	0.9496
turkish	0.8009	0.7304	0.7362
tvnews	0.9024	0.8019	0.8079
ur3_cobotops_grip	0.7753	0.5005	0.5424
ur3_cobotops_stop	0.7571	0.4353	0.5025
urban	0.8274	0.8064	0.8111
vehicle	0.7615	0.6953	0.7123
vote	0.9311	0.8607	0.8605
vowel	0.7029	0.6465	0.6484
wap-wc	0.6142	0.7853	0.7883
warpar10p	0.7005	0.7373	0.7509
warppie10p	0.9624	0.9418	0.9453
waveform	0.8350	0.7651	0.7653
weather-related	0.9742	0.9730	0.9705
white-clover	0.2489	-0.5012	0.0000
wifi-loc	0.9878	0.9848	0.9863
wilt	0.9030	0.8139	0.8109
wine	0.9972	1.0000	0.9940
winequality-red	0.3199	0.4156	0.4313
winequality-white	0.4039	0.4294	0.4362
wisc_bc	0.9938	0.9908	0.9997
yale	0.7673	0.7947	0.8106
Continued on next page			

Dataset	F1-macro	Kappa	MCC
yeast	0.4384	0.4826	0.4927
yeastCYT-POX	0.9046	0.7879	0.8067
yeastEXC	0.7443	0.4825	0.4855
yeastME1	0.7614	0.3940	0.4972
yeastME2	0.7182	0.2415	0.3684
zip	0.9231	0.9199	0.9236

Table 50: Detailed results for ExtraTrees 5

Dataset	F1-macro	Kappa	MCC
abalone	0.1264	0.0665	0.0676
abalone19	0.4740	-0.0134	0.0000
accelerometer	0.5011	0.0000	0.0000
ads	0.9445	0.8817	0.8990
advanced-iot	0.9972	1.0000	0.9939
AID.1431	0.4745	0.0000	0.0000
AID.1431_KlekotaRothFingerprinter	0.4397	-0.1154	0.0000
AID.1431_MACCSFingerprinter	0.5280	0.0598	0.0624
AID.1878	0.6198	0.2426	0.2423
AID.602330	0.5473	0.0984	0.0979
AID.652128	0.5158	0.2306	0.2571
AID1284red	0.6258	0.2274	0.2551
AID1608Morered	0.5413	0.0794	0.0800
AID1608red	0.4699	-0.0553	0.0000
AID362red	0.5355	0.0505	0.0621
AID456red	0.4764	-0.0058	0.0000
AID688red	0.4905	-0.0113	0.0000
AID721morered	0.5956	0.1809	0.1871
AID721red	0.4367	0.0000	0.0000
aids	0.8282	0.6582	0.6624
air_pollution	0.1271	-0.0174	0.0000
alcohol	0.5906	0.5802	0.5805
all-aml	1.0000	0.9987	1.0000
anneal	0.8611	0.8455	0.8619
antivirus	0.9898	0.9929	1.0000
anuran-f-b	0.9071	0.7967	0.8190
anxiety	0.0860	-0.0228	0.0000
apple-quality	0.8323	0.6767	0.6826
arcene	0.6972	0.4016	0.4066
arrhythmia	0.5758	0.5327	0.5328
auction	0.9355	0.8778	0.8877
audiology	0.6234	0.7285	0.7323
audit-risk	0.9679	0.9431	0.9440
autism-adolescent	0.9996	0.9936	0.9963
autism-adult	0.9651	0.9222	0.9235
autism-child	0.9700	0.9306	0.9350
autos	0.8004	0.7353	0.7386
avila	0.9304	0.9769	0.9701
balance	0.6837	0.7674	0.7768
bankruptcy	0.9958	0.9956	0.9926
bio	0.9156	0.8432	0.8449
biodeg	0.8809	0.7661	0.7667
biomed	0.9973	0.9958	1.0000
bitcoin10%	0.1681	0.0932	0.1851
body-perf	0.7044	0.6155	0.6146
brain-tumor	0.4866	-0.0191	0.0000
breast-cancer	0.6459	0.2996	0.2985
breast-cancer-ma	0.4228	-0.1378	0.0000
breast-tissue	0.7371	0.7699	0.7992
bridges	0.4515	0.5672	0.5878
bub12at310k-hg16-17	0.7057	0.4137	0.4099
cad	0.9966	1.0000	0.9934
cancer	0.9905	0.9950	0.9992
cancer-uae	0.2950	-0.0524	0.0000
car-insurance	0.8116	0.6089	0.6225
Continued on next page			

Dataset	F1-macro	Kappa	MCC
cardiotocography-nsp	0.8451	0.7427	0.7475
cardiovascular	0.7459	0.4672	0.4764
cargo2k	0.9986	0.9966	0.9965
cars	0.6606	0.5684	0.5702
cdc_diabetes	0.4587	0.3023	0.3359
census	0.7322	0.3943	0.4566
cervical-B	0.8793	0.7508	0.7468
cervical-H	0.7701	0.4251	0.5186
cervical-S	0.8775	0.7513	0.7523
children-anemia	0.7339	0.6783	0.6768
chrom211%	0.4973	0.0000	0.0000
churn	0.7374	0.4565	0.4648
cjs	0.9939	0.9987	0.9912
ckd	1.0000	0.9930	0.9996
clave	0.7069	0.7038	0.7060
cll_sub_111	0.7198	0.4530	0.4538
cmc	0.5282	0.2902	0.2933
cnae-9	0.8960	0.8759	0.8702
codon_usage	0.7576	0.8753	0.8787
coil20	0.9938	0.9946	1.0000
college	0.9005	0.8028	0.7984
collins	0.8980	0.8946	0.8869
colon-tumor	0.7449	0.4026	0.4995
colposcopies-1	0.6919	0.3859	0.3894
colposcopies-2	0.6972	0.3437	0.3959
colposcopies-4	0.6563	0.3077	0.3102
colposcopies-5	0.5746	0.1383	0.1434
colposcopies-c	0.8020	0.5283	0.6005
column-2c	0.9088	0.7997	0.8111
column-3c	0.6622	0.5754	0.5782
coupon	0.7481	0.4946	0.4951
covtype	0.7809	0.7636	0.7672
covtypeCD	0.9184	0.8289	0.8490
crabs	0.7581	0.6669	0.6625
crowdsourced	0.8626	0.8693	0.8700
cryotherapy	0.6510	0.3073	0.3168
cultivars	0.4379	0.4807	0.4865
cybersecurity	0.1765	0.0112	0.0113
cyclopentane	0.6645	0.3314	0.3323
cylinder-bands	0.7004	0.4002	0.4011
datatrieve	0.7702	0.4339	0.5274
dbworld	0.9930	1.0000	1.0000
default	0.7179	0.3749	0.4153
dementia	1.0000	0.9947	1.0000
depressed	0.5861	0.1814	0.1812
dermatology	0.9751	0.9627	0.9638
desharnais	0.3153	0.0242	0.0263
df_final	0.6325	0.4545	0.5029
DIA	0.7200	0.4392	0.4428
diagnosis	0.9963	0.9929	1.0000
diamonds	0.9945	0.9956	0.9999
diamonds_all	0.7772	0.6968	0.7058
dishonest	0.9936	0.9963	0.9987
dlbcl-nih	0.4998	0.0148	0.0154
dlbcl-stanford	0.8287	0.6102	0.6649
drebin	0.9779	0.9654	0.9676
dropout	0.6863	0.5712	0.5725
ecoli	0.7473	0.8401	0.8343
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Dataset	F1-macro	Kappa	MCC
ecoliCP-IM	0.9889	0.9943	0.9917
ecoliM	0.7691	0.5411	0.5515
ecoliMU	0.6206	0.1663	0.2219
ecoliOM	0.9016	0.7850	0.8009
ecommerce	0.2554	0.0015	0.0015
euthyroid	0.7410	0.3934	0.4778
fakenews	0.4581	-0.0747	0.0000
fbis-wc	0.7785	0.7936	0.7895
finance	0.6069	0.2124	0.2149
financial-risk	0.6138	0.6754	0.6813
flags	0.5376	0.5720	0.5883
forest	0.9052	0.8858	0.8924
gas	1.0000	0.9887	0.9921
gastrointestinal	0.5116	0.3849	0.3849
gender	0.4587	0.1832	0.1863
german	0.6372	0.2776	0.2786
gestures	0.9391	0.9268	0.9214
gina	0.9444	0.8939	0.8950
gisette	0.9657	0.9288	0.9288
glass	0.8479	0.7559	0.7591
glass-g2	0.8843	0.7534	0.7715
glassBWFP	0.8667	0.7161	0.7442
glassBWNFP	0.8106	0.5941	0.6094
glassContainers	0.9999	0.9948	0.9931
glassNW	0.9997	0.9978	0.9958
glassTableware	0.4855	0.0000	0.0000
GlaucomaM	0.7354	0.4707	0.4761
gli_85	0.9998	0.9953	0.9973
glioma	0.8300	0.7041	0.7538
glioma-grade	0.8720	0.7324	0.7408
green	0.6104	0.2096	0.2184
gsalc	0.9972	0.9918	0.9944
haberman	0.7144	0.4270	0.4281
hapt	0.8369	0.9378	0.9357
har	0.9817	0.9926	0.9827
health-activity	0.2421	0.0294	0.0335
heart	0.7445	0.4822	0.4971
heart-c	0.8377	0.6558	0.6747
heart-failure	0.9716	0.9487	0.9464
heart-quantum	0.9359	0.8720	0.8869
hepatitis	0.8513	0.6643	0.7093
higher	0.0829	-0.0637	0.0000
hinselmann	0.4103	-0.1529	0.0000
hitters	0.9358	0.8659	0.8717
hiv1-proteasa	0.8555	0.7167	0.7284
hiva	0.5804	0.1696	0.1686
horse	0.6142	0.3870	0.3849
hotel-reservartions	0.8985	0.7672	0.7748
hr	0.5124	0.0246	0.0272
htru2	0.9145	0.8262	0.8354
hypothyroid	0.5915	0.6054	0.6421
immuno-therapy	0.5949	0.1808	0.1896
ionosphere	0.8959	0.8031	0.8012
iris	0.9904	0.9897	0.9934
irish	0.9894	0.9907	0.9907
isolet	0.9137	0.9033	0.9080
jm1	0.6638	0.3334	0.3374
jvowels	0.9654	0.9657	0.9572
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Dataset	F1-macro	Kappa	MCC
kc1-class-level-numericdefect	0.3151	0.2760	0.2976
kc1-class-level-top5percentDF	0.4213	-0.1103	0.0000
kc2	0.7156	0.4216	0.4417
kdc-4007	0.7848	0.7507	0.7522
kidney	0.1775	0.0000	0.0000
kidney-disease	0.9641	0.9392	0.9382
la2s-wc	0.8640	0.8409	0.8413
labor	0.9920	1.0000	0.9946
leaf	0.6016	0.6550	0.6681
led24	0.7261	0.6588	0.6564
lenses	0.9976	0.9971	0.9947
letter	0.9483	0.9469	0.9453
linkage1%	0.9448	0.9219	0.9023
loan	0.9564	0.9209	0.9146
lrs	0.6055	0.7684	0.7727
lung_discrete	0.9936	1.0000	0.9926
lymphography	0.5924	0.7258	0.7383
lymphoma2	0.7875	0.8466	0.8619
machine-failure	0.9218	0.8533	0.8445
magic04	0.8386	0.6803	0.6800
malware	0.9998	0.9977	0.9997
mammography	0.8732	0.7482	0.7521
marketing	0.7463	0.4914	0.4922
mba	0.4667	0.3333	0.3764
mental-disorders	0.8500	0.7726	0.7938
messidor	0.6881	0.3669	0.3791
meter-A	0.6451	0.1572	0.2900
meter-B	0.9884	1.0000	0.9934
meter-C	0.9940	0.9922	1.0000
meter-D	0.9928	0.9958	0.9929
mfeat-fac	0.9576	0.9569	0.9518
mfeat-fou	0.7939	0.7753	0.7712
mfeat-kar	0.9633	0.9539	0.9532
mfeat-mor	0.6907	0.6537	0.6516
mfeat-pix	0.9780	0.9671	0.9642
mfeat-zer	0.7659	0.7447	0.7434
mice-prot	0.9997	0.9910	0.9978
milk	1.0000	0.9999	0.9905
mines	0.4989	0.4407	0.4498
mobile	0.9432	0.9358	0.9347
monks-1	0.9474	0.8899	0.8956
monks-3	0.9571	0.9199	0.9273
mushroom	0.9958	0.9906	0.9979
music	0.4954	0.3696	0.3752
MUT_ci300400a_cdk_ECFP2	0.7936	0.5827	0.5851
MUT_ci300400a_cdk_ECFP4	0.8124	0.6387	0.6419
MUT_ci300400a_cdk_ECFP6	0.7945	0.5936	0.5926
MUT_ci300400a_cdk_ESTATE	0.7370	0.4717	0.4796
MUT_ci300400a_cdk_EXTENDED	0.8440	0.6835	0.6806
MUT_ci300400a_cdk_FCFP2	0.7502	0.5002	0.5024
MUT_ci300400a_cdk_FCFP4	0.7631	0.5387	0.5373
MUT_ci300400a_cdk_FCFP6	0.7959	0.5982	0.6048
MUT_ci300400a_cdk_MACCS	0.8213	0.6332	0.6425
MUT_ci300400a_cdk_PUBCHEM	0.8399	0.6819	0.6810
MUT_ci300400a_cdk_STANDARD	0.8076	0.6332	0.6333
MUT_ci300400a_rdkit_descriptors	0.8272	0.6522	0.6506
myocardial	0.3567	0.4924	0.4961
naticusdroid	0.9740	0.9380	0.9322
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Dataset	F1-macro	Kappa	MCC
nci9	0.7852	0.7943	0.8271
ncRNA10%	0.5677	0.7094	0.7129
neo	0.6811	0.2232	0.3124
new-thyroid	1.0000	0.9971	0.9999
new-thyroidT	0.9966	0.9928	0.9990
NHANES_age_prediction	0.9189	0.8186	0.8379
nursery	0.9364	0.9516	0.9459
obesity	0.8452	0.8195	0.8105
obs	0.9534	0.9313	0.9248
oh0-wc	0.9283	0.9051	0.9092
oh10-wc	0.8098	0.7961	0.7951
oh15-wc	0.9230	0.9093	0.9126
oh5-wc	0.9202	0.9000	0.9016
olive	0.9305	0.9291	0.9341
optdigits	0.9628	0.9577	0.9638
orlraws10P	1.0000	0.9880	0.9988
ozone1hr	0.5637	0.1346	0.1390
p53-mutants10%	0.4876	-0.0057	0.0000
parkinson	0.9731	0.9686	0.9556
particle	0.9159	0.8196	0.8237
pc1	0.7577	0.5169	0.5189
pcmac	0.4648	-0.0722	0.0000
pediatric-leukemia	0.7615	0.7742	0.7854
pendigits	0.9843	0.9783	0.9775
period-10f	0.5744	0.1427	0.1585
persistency	0.8072	0.6237	0.6259
pet-adoption	0.8746	0.7507	0.7542
phishing	0.9550	0.9139	0.9112
PhiUSIL10%	1.0000	0.9874	0.9993
pima	0.7440	0.4921	0.4936
pirvision	0.9684	0.9518	0.9506
placement	0.7813	0.5689	0.5701
plrx	0.4461	-0.1072	0.0000
polya	0.7607	0.5161	0.5210
post-operative	0.3552	-0.1997	0.0000
pred-tox_mutagen_ref-desc	0.6585	0.3200	0.3244
prestige	0.8855	0.8241	0.8422
primary-tumor	0.3435	0.3556	0.3624
profb	0.5904	0.1815	0.1839
promoters	0.9064	0.7960	0.8109
pulsar	0.9518	0.8945	0.8947
raisin	0.9055	0.8211	0.8184
rejafada	0.7925	0.4912	0.5723
relathe	0.9881	0.9814	0.9800
rice	0.9890	0.9713	0.9683
rocket	0.6566	0.2897	0.3134
satimage	0.8815	0.8744	0.8732
scadi	0.6981	0.6286	0.6805
schiller	0.5896	0.1813	0.1873
sclerosis	0.9873	1.0000	1.0000
secom	0.4742	-0.0306	0.0000
seeds	0.9506	0.9286	0.9327
segment	0.9587	0.9518	0.9507
segmentation	0.8108	0.6081	0.6209
segmentO	0.9858	0.9642	0.9732
seismic	0.6252	0.1838	0.2303
sens-2-gram	0.6239	0.2618	0.2606
sens-3-gram	0.6480	0.2959	0.2993

Continued on next page

Dataset	F1-macro	Kappa	MCC
sens4-gram	0.5586	0.1210	0.1222
shoppers	0.8090	0.5824	0.6076
sick	0.6783	0.2500	0.3309
sirtuin6	0.9060	0.8006	0.8133
smarket	1.0000	0.9965	0.9954
smk_can_187	0.5762	0.1454	0.1490
smoking	0.7752	0.5479	0.5364
soil_pollution	0.1747	-0.0374	0.0000
solar-flare	0.6284	0.6332	0.6465
sonar	0.5566	0.1002	0.1158
soybean	0.9775	0.9699	0.9668
spam-detection	0.8615	0.7061	0.7172
spambase	0.9141	0.8305	0.8349
spect	0.7286	0.4219	0.4555
spectf	0.8935	0.7764	0.7790
spectrometer	0.5629	0.6530	0.6576
squash-unstored	0.8007	0.5458	0.6108
startup	0.9974	0.9947	0.9976
steel_industry	0.8798	0.8361	0.8599
stellar	0.9623	0.9559	0.9625
stock	0.8269	0.6731	0.6711
stockb	0.9824	0.9717	0.9765
streaming	0.9287	0.8597	0.8566
stress	1.0000	0.9899	0.9974
student-depression	0.8228	0.6470	0.6458
student-habits	0.1877	-0.0010	0.0000
student-lifestyle	0.3975	0.3452	0.3556
student-weekend	0.3125	0.2016	0.2072
student-workday	0.1912	0.1505	0.1531
studentap	0.3375	0.0370	0.0379
tae	0.4793	0.1972	0.2031
telco-churn	0.8524	0.6937	0.6981
texture	0.9838	0.9678	0.9756
theorem	0.9981	0.9971	0.9934
thoracic	0.4720	-0.0510	0.0000
Thyroid_Diff	0.9353	0.8744	0.8677
tis	0.8702	0.7279	0.7368
titanic	0.7295	0.4508	0.4528
tourist	0.5215	0.6318	0.6884
trains	0.3309	0.0000	0.0000
transfusion	0.5639	0.1222	0.1300
tuandromd	0.9490	0.9044	0.9165
turkish	0.7800	0.6997	0.7029
tvnews	0.9353	0.8652	0.8611
ur3_cobotops_grip	0.6886	0.3740	0.3838
ur3_cobotops_stop	0.8006	0.5640	0.5971
urban	0.8366	0.8125	0.8140
vehicle	0.7284	0.6852	0.6926
vote	0.9369	0.8572	0.8574
vowel	0.7077	0.6484	0.6657
wap-wc	0.7114	0.8175	0.8186
warpar10p	0.7323	0.7398	0.7498
warppie10p	0.9991	0.9981	0.9907
waveform	0.8423	0.7741	0.7801
weather-related	0.9760	0.9700	0.9623
white-clover	0.6561	0.1806	0.3110
wifi-loc	0.9908	0.9909	0.9950
wilt	0.8587	0.7105	0.7372
Continued on next page			

Dataset	F1-macro	Kappa	MCC
wine	0.9952	0.9972	1.0000
winequality-red	0.3022	0.3250	0.3334
winequality-white	0.4237	0.3783	0.3817
wisc.bc	0.9751	0.9538	0.9611
yale	0.7634	0.7953	0.7996
yeast	0.4664	0.5132	0.5237
yeastCYT-POX	0.9067	0.7860	0.8004
yeastEXC	0.7020	0.3239	0.3886
yeastME1	0.7804	0.4496	0.5353
yeastME2	0.6599	0.3154	0.3199
zip	0.9420	0.9335	0.9350

Table 51: Detailed results for RerF 5

Dataset	F1-macro	Kappa	MCC
abalone	0.0990	0.0681	0.0722
abalone19	0.4982	0.0000	0.0000
accelerometer	0.7242	0.2428	0.3717
ads	0.9480	0.8930	0.8959
adult	0.7083	0.3391	0.4144
advanced-iot	0.9997	0.9996	0.9996
AID_1431	0.4750	-0.0148	0.0000
AID_1431_KlekotaRothFingerprinter	0.4772	0.0000	0.0000
AID_1431_MACCSFingerprinter	0.4750	-0.0148	0.0000
AID_1878	0.4474	-0.0184	0.0000
AID_602330	0.4894	0.0000	0.0000
AID_652128	0.3118	0.0000	0.0000
AID1284red	0.4627	0.0000	0.0000
AID1608Morered	0.4824	0.0000	0.0000
AID1608red	0.4850	0.0000	0.0000
AID362red	0.4965	0.0000	0.0000
AID373AID439red	0.5000	0.0000	0.0000
AID373red	0.4997	0.0000	0.0000
AID456red	0.4992	0.0000	0.0000
AID604	0.4991	0.0000	0.0000
AID604AID644_AllRed	0.4997	0.0000	0.0000
AID687AID721red	0.4998	0.0000	0.0000
AID687red	0.4992	0.0000	0.0000
AID688red	0.4977	0.0000	0.0000
AID721morered	0.4375	0.0000	0.0000
AID721red	0.4000	-0.1739	0.0000
AID746AID1284red	0.4997	0.0000	0.0000
AID746red	0.4985	0.0000	0.0000
aids	0.8390	0.6641	0.6772
air_pollution	0.0826	0.0000	0.0000
alcohol	0.4543	0.5619	0.6022
all-aml	1.0000	1.0000	1.0000
anneal	0.9872	0.9766	0.9769
antivirus	1.0000	1.0000	1.0000
anuran-f-b	1.0000	1.0000	1.0000
anxiety	0.1139	-0.0042	0.0000
apple-quality	0.8853	0.7700	0.7706
aps-failure	0.8845	0.7617	0.7682
arabidopsis1%	0.4980	0.0000	0.0000
arcene	0.7917	0.5833	0.5833
arrhythmia	0.5117	0.5416	0.5647
auction	0.9315	0.8533	0.8626
audiology	0.5442	0.6947	0.7027
audit-risk	1.0000	1.0000	1.0000
autism-adolescent	1.0000	1.0000	1.0000
autism-adult	1.0000	1.0000	1.0000
autism-child	1.0000	1.0000	1.0000
autos	0.8830	0.8039	0.8174
avila	0.9889	1.0000	1.0000
balance	0.6444	0.8787	0.8852
bank	0.7376	0.4638	0.4731
bankruptcy	1.0000	1.0000	1.0000
bio	0.9142	0.8211	0.8278
biodeg	0.8675	0.7310	0.7350
biomed	1.0000	1.0000	1.0000
Continued on next page			

Dataset	F1-macro	Kappa	MCC
bitcoin10%	0.1700	0.0602	0.1700
body-perf	0.7133	0.6179	0.6196
brain-tumor	0.5073	0.0144	0.0147
breast-cancer	0.7325	0.3226	0.4385
breast-cancer-ma	0.6309	0.2414	0.2609
breast-tissue	0.7179	0.6733	0.6869
bridges	0.7895	0.8571	0.8697
bub12at310k-hg16-17	0.7025	0.3376	0.3864
cad	1.0000	1.0000	1.0000
cancer	1.0000	1.0000	1.0000
cancer-uae	0.2201	0.0000	0.0000
car-insurance	0.8098	0.6180	0.6196
cardiotocography-nsp	0.8769	0.8217	0.8268
cardiovascular	0.7364	0.4710	0.4727
cargo2k	1.0000	1.0000	1.0000
cars	0.7935	0.7263	0.7322
ccds10%	0.4902	0.0000	0.0000
cdc_diabetes	0.4182	0.1285	0.2031
census	0.7660	0.4845	0.5218
cervical-B	0.4788	-0.0203	0.0000
cervical-H	0.4881	0.0000	0.0000
cervical-S	0.8890	0.7514	0.7758
children-anemia	0.8610	0.8962	0.8979
chrom19	0.9461	0.8888	0.8920
chrom211%	0.4998	0.0000	0.0000
churn	0.7483	0.4692	0.4927
cjs	1.0000	1.0000	1.0000
ckd	1.0000	1.0000	1.0000
clave	0.6796	0.7245	0.7300
cll_sub_111	0.6151	0.3023	0.3061
cmc	0.5405	0.3212	0.3285
cnae-9	0.9637	0.9583	0.9584
codon_usage	0.7590	0.8930	0.8940
coil20	1.0000	1.0000	1.0000
college	0.9172	0.8338	0.8343
collins	0.7833	0.8674	0.8717
colon-tumor	0.8537	0.6667	0.7071
colposcopies-1	0.6821	0.3591	0.3638
colposcopies-2	0.6915	0.2162	0.3482
colposcopies-4	0.7150	0.3873	0.4243
colposcopies-5	0.6238	0.2077	0.2360
colposcopies-c	0.8054	0.5323	0.6022
column-2c	0.8874	0.7726	0.7748
column-3c	0.6304	0.5303	0.5368
connect-4	0.6710	0.4582	0.5315
coupon	0.7461	0.4881	0.4921
covtype	0.8510	0.8336	0.8345
covtypeCD	0.9744	0.9485	0.9488
covtypeT	0.5671	0.0314	0.1263
crabs	1.0000	1.0000	1.0000
creditcard_trans	0.9230	0.8331	0.8449
crowdsourced	0.8577	0.8949	0.8964
cryotherapy	0.8163	0.5714	0.6325
cultivars	0.6745	0.7097	0.7147
cybersecurity	0.1399	-0.0198	0.0000
cyclopentane	0.6998	0.3793	0.3990
cylinder-bands	0.7527	0.5049	0.5053
datatrieve	0.4800	0.0000	0.0000
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Dataset	F1-macro	Kappa	MCC
dating	0.0944	-0.0063	0.0000
dbworld	1.0000	1.0000	1.0000
default	0.7114	0.3859	0.4167
dementia	1.0000	1.0000	1.0000
deposit	0.7251	0.4296	0.4460
depressed	0.6649	0.0675	0.1869
dermatology	0.9429	0.9325	0.9325
desharnais	0.4099	0.2000	0.2100
df_final	0.7678	0.6098	0.6258
DIA	0.7938	0.5000	0.5774
diabetes-100k	0.8926	0.7606	0.7831
diagnosis	1.0000	1.0000	1.0000
diamonds	1.0000	1.0000	1.0000
diamonds_all	0.7524	0.6624	0.6669
dishonest	1.0000	1.0000	1.0000
dlbcl-nih	0.5966	0.1692	0.1908
dlbcl-stanford	1.0000	1.0000	1.0000
dna0.1%	0.4993	0.0000	0.0000
dota2	0.5757	0.1505	0.1513
drebin	0.9826	0.9652	0.9652
dropout	0.6908	0.6135	0.6223
ecoli	0.7174	0.7942	0.7992
ecoliCP-IM	1.0000	1.0000	1.0000
ecoliM	0.4310	0.0000	0.0000
ecoliMU	0.8167	0.6333	0.6333
ecoliOM	0.8514	0.6526	0.6960
ecommerce	0.2533	0.0096	0.0099
euthyroid	0.9082	0.8159	0.8164
fakenews	0.5426	0.0851	0.0852
fbis-wc	0.7354	0.7853	0.7897
finance	0.8663	0.7173	0.7324
financial-risk	0.5938	0.7101	0.7212
flags	0.4640	0.6764	0.6933
forest	0.8906	0.8669	0.8710
gas	0.9936	0.9921	0.9922
gastrointestinal	0.8485	0.7838	0.8094
gender	0.4801	0.1502	0.1874
german	0.6886	0.3112	0.3686
gestures	0.9293	0.9053	0.9057
gina	0.9511	0.9020	0.9021
gisette	0.9700	0.9400	0.9400
glass	0.7302	0.7264	0.7343
glass-g2	0.9352	0.8621	0.8704
glassBWFP	0.9114	0.8073	0.8228
glassBWNFP	0.7857	0.5714	0.5714
glassContainers	1.0000	1.0000	1.0000
glassNW	0.9340	0.8591	0.8677
glassTableware	1.0000	1.0000	1.0000
GlaucomaM	0.7978	0.5824	0.5955
gli_85	1.0000	1.0000	1.0000
glioma	0.8333	0.7059	0.7500
glioma-grade	0.8845	0.7610	0.7689
green	0.5238	0.0476	0.0476
gsalc	1.0000	1.0000	1.0000
haberman	0.5269	0.0426	0.0503
hapt	0.8832	0.9567	0.9568
har	0.9933	0.9923	0.9923
harth10%	0.6738	0.8536	0.8546
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Dataset	F1-macro	Kappa	MCC
health-activity	0.2175	0.0000	0.0000
heart	0.7699	0.5398	0.5398
heart-c	0.9674	0.9327	0.9349
heart-failure	0.9861	0.9719	0.9722
heart-quantum	0.9423	0.8780	0.8847
hepatitis	0.6779	0.3333	0.3536
higher	0.0577	0.0253	0.0327
hinselmann	0.4118	-0.1538	0.0000
hitters	0.9373	0.8745	0.8745
hiv1-proteasa	0.7740	0.4949	0.5399
hiva	0.6916	0.1211	0.2539
horse	0.5268	0.2653	0.3003
hotel-reservartions	0.8879	0.7739	0.7758
hr	0.4633	0.0000	0.0000
ht-sensor	0.9998	0.9997	0.9997
htru2	0.9307	0.8604	0.8614
hypothyroid	0.7333	0.9384	0.9390
immuno-therapy	0.5950	0.1818	0.1890
ionosphere	0.9686	0.9353	0.9373
iris	1.0000	1.0000	1.0000
irish	1.0000	1.0000	1.0000
isolet	0.9073	0.9012	0.9015
jm1	0.6406	0.2326	0.2683
jvowels	0.9831	0.9818	0.9818
kc1-class-level-numericdefect	0.1714	0.1333	0.1782
kc1-class-level-top5percentDF	0.4643	-0.0714	0.0000
kc2	0.7394	0.4238	0.4700
kdc-4007	0.7585	0.7030	0.7050
kddcup991%	0.8291	0.9976	0.9976
kidney	0.1778	0.0000	0.0000
kidney-disease	1.0000	1.0000	1.0000
la2s-wc	0.8828	0.8652	0.8666
labor	0.8537	0.6667	0.7071
leaf	0.7095	0.7213	0.7300
led24	0.6191	0.5415	0.5545
lenses	1.0000	1.0000	1.0000
letter	0.9559	0.9542	0.9542
linkage1%	0.9879	0.9755	0.9758
loan	0.9900	0.9800	0.9801
lrs	0.6316	0.7915	0.7990
lung_discrete	0.7652	0.8367	0.8549
lymphography	0.4934	0.4510	0.4560
lymphoma2	0.6377	0.6667	0.7171
machine-failure	0.9237	0.8472	0.8474
magic04	0.8580	0.7124	0.7160
malware	1.0000	1.0000	1.0000
mammography	0.8434	0.6867	0.6868
marketing	0.7717	0.4258	0.5201
mba	0.3409	0.0087	0.0161
mental-disorders	0.9270	0.8889	0.8972
messidor	0.6601	0.3183	0.3201
meter-A	0.8000	0.5294	0.6000
meter-B	0.9167	0.8302	0.8462
meter-C	1.0000	1.0000	1.0000
meter-D	0.9583	0.9234	0.9274
mfeat-fac	0.9806	0.9778	0.9779
mfeat-fou	0.7992	0.7778	0.7785
mfeat-kar	0.9761	0.9722	0.9724
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Dataset	F1-macro	Kappa	MCC
mfeat-mor	0.7328	0.7000	0.7016
mfeat-pix	0.9809	0.9778	0.9780
mfeat-zer	0.7933	0.7667	0.7672
mice-prot	1.0000	1.0000	1.0000
milk	1.0000	1.0000	1.0000
mines	0.5025	0.4100	0.4140
mobile	0.9584	0.9537	0.9539
monks-1	0.9317	0.8541	0.8633
monks-3	0.9466	0.8926	0.8932
mushroom	1.0000	1.0000	1.0000
music	0.5253	0.3848	0.4101
MUT_ci300400a_cdk_ECFP2	0.8187	0.6374	0.6374
MUT_ci300400a_cdk_ECFP4	0.8259	0.6516	0.6518
MUT_ci300400a_cdk_ECFP6	0.7993	0.5977	0.5986
MUT_ci300400a_cdk_ESTATE	0.7796	0.5590	0.5592
MUT_ci300400a_cdk_EXTENDED	0.8297	0.6591	0.6594
MUT_ci300400a_cdk_FCFP2	0.8169	0.6336	0.6339
MUT_ci300400a_cdk_FCFP4	0.7984	0.5966	0.5968
MUT_ci300400a_cdk_FCFP6	0.8143	0.6283	0.6286
MUT_ci300400a_cdk_MACCS	0.8441	0.6878	0.6881
MUT_ci300400a_cdk_PUBCHEM	0.8600	0.7199	0.7199
MUT_ci300400a_cdk_STANDARD	0.8382	0.6764	0.6765
MUT_ci300400a_rdkit_descriptors	0.8320	0.6636	0.6640
myocardial	0.2747	0.2901	0.4120
naticusdroid	0.9725	0.9450	0.9450
nci9	0.7895	0.8000	0.8281
ncRNA10%	0.6954	0.8320	0.8339
neo	0.6958	0.3031	0.3655
new-thyroid	1.0000	1.0000	1.0000
new-thyroidT	0.8981	0.7742	0.7947
newspop	0.6629	0.3250	0.3259
NHANES_age_prediction	1.0000	1.0000	1.0000
nomao	0.9592	0.9182	0.9184
nursery	0.9625	0.9762	0.9763
obesity	0.9326	0.9170	0.9186
obs	1.0000	1.0000	1.0000
oh0-wc	0.9113	0.8977	0.8991
oh10-wc	0.8291	0.8040	0.8085
oh15-wc	0.8722	0.8388	0.8405
oh5-wc	0.8700	0.8380	0.8407
olive	0.9385	0.9343	0.9362
optdigits	0.9756	0.9703	0.9704
orlraws10P	1.0000	1.0000	1.0000
ozone1hr	0.4909	0.0000	0.0000
p53-mutants10%	0.4992	0.0000	0.0000
parkinson	0.9831	0.9657	0.9663
particle	0.9194	0.8387	0.8387
pc1	0.6277	0.1763	0.2241
pcmac	0.3681	0.0000	0.0000
pediatric-leukemia	0.7244	0.7441	0.7509
pendigits	0.9917	0.9909	0.9909
period-10f	0.3077	-0.3636	0.0000
persistence	0.7940	0.5814	0.5879
personalities	0.9772	0.9756	0.9757
pet-adoption	0.9263	0.8477	0.8525
phishing	0.9529	0.9049	0.9058
PhiUSIL10%	1.0000	1.0000	1.0000
phy	0.7146	0.4282	0.4291
Continued on next page			

Dataset	F1-macro	Kappa	MCC
pima	0.7027	0.3824	0.4041
pirvision	0.9856	0.9834	0.9834
placement	0.7916	0.5875	0.5942
plrx	0.4194	0.0000	0.0000
polya	0.7556	0.4885	0.5101
popularity	0.4303	0.2477	0.2765
post-operative	0.4000	0.0000	0.0000
postures	0.9845	0.9809	0.9810
pred-tox_mutagen_ref-desc	0.7207	0.4412	0.4414
prestige	1.0000	1.0000	1.0000
primary-tumor	0.4394	0.4246	0.4336
processed	1.0000	1.0000	1.0000
profb	0.6816	0.1750	0.3096
promoters	0.9083	0.8000	0.8165
puc-rio	0.9942	0.9955	0.9955
pufs-1281%	0.4933	-0.0133	0.0000
pufs-6410%	0.4987	-0.0025	0.0000
pulsar	0.9485	0.8950	0.8969
raisin	0.9115	0.8222	0.8230
rejafada	1.0000	1.0000	1.0000
relathe	1.0000	1.0000	1.0000
rice	0.9873	0.9744	0.9745
rocket	0.6869	0.3735	0.3738
RT_IOT2022	0.9692	0.9963	0.9963
satimage	0.8944	0.8865	0.8872
scadi	0.6984	0.6316	0.6860
schiller	0.6786	0.3571	0.3571
sclerosis	1.0000	1.0000	1.0000
secom	0.4834	0.0000	0.0000
secondary_mushroom	1.0000	1.0000	1.0000
seeds	0.9077	0.8571	0.8601
segment	0.9700	0.9595	0.9600
segmentation	0.8532	0.7059	0.7063
segmentO	0.9913	0.9825	0.9827
seismic	0.4830	0.0000	0.0000
sens-2-gram	0.6856	0.1312	0.2650
sens-3-gram	0.6856	0.1312	0.2650
sens-4-gram	0.6196	0.0615	0.1412
sensorless	0.9986	0.9985	0.9985
shoppers	0.7898	0.5642	0.5776
sick	0.8698	0.7171	0.7371
sirtuin6	1.0000	1.0000	1.0000
smarket	0.9921	0.9840	0.9841
smk_can_187	0.6833	0.3667	0.3667
smoking	0.8090	0.6178	0.6179
soil_pollution	0.2115	0.0192	0.0194
solar-flare	0.6227	0.7042	0.7074
sonar	0.6269	0.2000	0.2500
soybean	1.0000	1.0000	1.0000
spam-detection	0.8707	0.7414	0.7414
spambase	0.9385	0.8762	0.8770
spect	0.4444	0.0000	0.0000
spectf	0.8956	0.7692	0.7906
spectrometer	0.4945	0.6002	0.6043
squash-unstored	1.0000	1.0000	1.0000
startup	1.0000	1.0000	1.0000
steel_industry	0.8894	0.8571	0.8571
stellar	0.9705	0.9543	0.9544
Continued on next page			

Dataset	F1-macro	Kappa	MCC
stock	0.8069	0.5931	0.6116
stockb	0.9956	0.9934	0.9934
streaming	0.9879	0.9758	0.9758
stress	1.0000	1.0000	1.0000
student-depression	0.8270	0.6506	0.6540
student-habits	0.2266	0.0060	0.0063
student-lifestyle	0.3412	0.3797	0.3925
student-weekend	0.2894	0.1450	0.1655
student-workday	0.2662	0.1063	0.1988
studentap	0.5148	0.2778	0.3198
swarm_aligned	1.0000	1.0000	1.0000
swarm_flocking	0.9996	0.9992	0.9992
swarm_grouped	1.0000	1.0000	1.0000
tae	0.4820	0.2000	0.2056
telco-churn	0.8642	0.7227	0.7283
texture	0.9847	0.9820	0.9820
theorem	0.9967	0.9933	0.9933
thoracic	0.4598	0.0000	0.0000
Thyroid_Diff	0.9365	0.8648	0.8728
tis	0.8645	0.7096	0.7280
titanic	0.7934	0.5163	0.5813
tourist	0.5250	0.6364	0.6848
trains	1.0000	1.0000	1.0000
transfusion	0.5184	0.0296	0.0343
tuandromd	0.9821	0.9640	0.9642
turkish	0.8484	0.8000	0.8007
tvnews	0.9368	0.8733	0.8736
ur3_cobotops_grip	0.7426	0.3779	0.4549
ur3_cobotops_stop	0.7507	0.4491	0.4885
urban	0.8505	0.8247	0.8262
ustilago10%	0.4973	0.0000	0.0000
vehicle	0.7463	0.7102	0.7117
vote	0.9773	0.9535	0.9545
vowel	0.6508	0.5556	0.5663
wap-wc	0.5670	0.7392	0.7441
warpar10p	0.8330	0.8267	0.8379
warppie10p	0.9583	0.9470	0.9494
waveform	0.8459	0.7690	0.7692
weather-related	0.9806	0.9760	0.9761
weight-lift	0.9974	0.9968	0.9968
white-clover	0.2500	-0.5000	0.0000
wifi-loc	0.9950	0.9933	0.9934
wilt	0.8863	0.7718	0.7726
wine	1.0000	1.0000	1.0000
winequality-red	0.3615	0.5542	0.5563
winequality-white	0.4727	0.4961	0.5042
winnipeg10%	0.9961	0.9942	0.9942
wisc.bc	0.9817	0.9627	0.9633
yale	0.6797	0.7311	0.7405
yeast	0.4094	0.4417	0.4477
yeastCYT-POX	0.9047	0.7897	0.8078
yeastEXC	0.6146	0.2292	0.2292
yeastME1	0.8546	0.6605	0.7022
yeastME2	0.6386	0.2055	0.2496
zip	0.9490	0.9470	0.9470

Table 52: Detailed results for RF 5

Dataset	F1-macro	Kappa	MCC
abalone	0.1203	0.0723	0.0736
abalone19	0.4903	-0.0112	0.0000
accelerometer	0.6980	0.2779	0.3588
ads	0.9228	0.8555	0.8597
adult	0.7913	0.5679	0.5858
advanced-iot	0.9985	0.9999	1.0000
AID_1431	0.4739	0.0000	0.0000
AID_1431_KlekotaRothFingerprinter	0.5166	0.0331	0.0345
AID_1431_MACCSFingerprinter	0.4656	-0.0387	0.0000
AID_1878	0.6025	0.1929	0.1985
AID_602330	0.4878	-0.0168	0.0000
AID_652128	0.5185	0.1417	0.2828
AID1284red	0.7318	0.4419	0.4596
AID1608Morered	0.4567	-0.0779	0.0000
AID1608red	0.4696	-0.0556	0.0000
AID362red	0.4941	-0.0094	0.0000
AID456red	0.5952	0.1386	0.1690
AID604	0.6548	0.0982	0.1994
AID687AID721red	0.5879	0.0069	0.0401
AID687red	0.5284	0.0087	0.0243
AID688red	0.4938	-0.0045	0.0000
AID721morered	0.3984	-0.1743	0.0000
AID721red	0.4356	0.0000	0.0000
aids	0.8908	0.7771	0.7801
air_pollution	0.1634	0.0534	0.0541
alcohol	0.7202	0.6496	0.6486
all-aml	0.9999	0.9967	1.0000
anneal	0.9405	0.9030	0.9099
antivirus	1.0000	0.9941	0.9940
anuran-f-b	1.0000	1.0000	0.9884
anxiety	0.1344	0.0140	0.0141
apple-quality	0.8630	0.7379	0.7356
arabidopsis1%	0.4933	0.0000	0.0000
arcene	0.7629	0.5080	0.5370
arrhythmia	0.6938	0.6817	0.6912
auction	0.9933	1.0000	0.9933
audiology	0.6099	0.7407	0.7360
audit-risk	1.0000	0.9984	1.0000
autism-adolescent	0.9980	0.9959	1.0000
autism-adult	0.9797	0.9651	0.9557
autism-child	1.0000	0.9969	0.9977
autos	0.7138	0.6793	0.6763
avila	0.9870	0.9838	0.9825
balance	0.6862	0.7715	0.7638
bank	0.7932	0.5640	0.5924
bankruptcy	0.9950	1.0000	0.9991
bio	0.9004	0.8102	0.8188
biodeg	0.8810	0.7737	0.7774
biomed	1.0000	0.9984	0.9986
bitcoin10%	0.2908	0.3932	0.3944
body-perf	0.7299	0.6416	0.6442
brain-tumor	0.5086	0.0200	0.0201
breast-cancer	0.8092	0.5996	0.6202
breast-cancer-ma	0.5312	0.0676	0.0685
breast-tissue	0.7150	0.6714	0.6832
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Dataset	F1-macro	Kappa	MCC
bridges	0.4528	0.5712	0.5777
bub12at310k-hg16-17	0.6952	0.3883	0.4006
cad	1.0000	0.9957	0.9998
cancer	0.9914	1.0000	0.9941
cancer-uae	0.3170	-0.0245	0.0000
car-insurance	0.8096	0.6203	0.6179
cardiotocography-nsp	0.8661	0.8149	0.8167
cardiovascular	0.7374	0.4795	0.4808
cargo2k	0.9901	0.9945	0.9931
cars	0.6496	0.5301	0.5497
ccds10%	0.5921	0.1095	0.1515
cdc_diabetes	0.4619	0.3302	0.3488
census	0.7594	0.4687	0.5176
cervical-B	0.9111	0.8120	0.8207
cervical-H	0.7695	0.4318	0.5255
cervical-S	0.8520	0.6896	0.6958
children-anemia	0.9149	0.9044	0.9096
chrom211%	0.4975	0.0000	0.0000
churn	0.7572	0.5140	0.5119
cjs	0.9862	0.9831	0.9809
ckd	0.9991	0.9995	0.9956
clave	0.6977	0.6952	0.6936
cll_sub_111	0.7170	0.4534	0.4519
cmc	0.5304	0.3106	0.3097
cnae-9	0.9323	0.9231	0.9230
codon_usage	0.7862	0.9066	0.9031
coil20	0.9963	1.0000	0.9951
college	0.8924	0.7853	0.7842
collins	0.8642	0.8264	0.8192
colon-tumor	0.7446	0.3972	0.4970
colposcopies-1	0.7283	0.4486	0.4510
colposcopies-2	0.6951	0.3430	0.3974
colposcopies-4	0.6655	0.3150	0.3307
colposcopies-5	0.6223	0.2063	0.2355
colposcopies-c	0.7505	0.5028	0.5067
column-2c	0.8476	0.7046	0.7021
column-3c	0.6468	0.5807	0.5801
coupon	0.7371	0.4899	0.4913
covtype	0.9073	0.8942	0.8943
covtypeCD	0.9552	0.9099	0.9109
covtypeT	0.9250	0.8305	0.8478
crabs	0.9158	0.8699	0.8747
creditcard_trans	0.7390	0.4040	0.4690
crowdsourced	0.8380	0.8573	0.8532
cryotherapy	0.7379	0.3698	0.4778
cultivars	0.4586	0.5157	0.5219
cybersecurity	0.1655	-0.0046	0.0000
cyclopentane	0.6950	0.3875	0.3928
cylinder-bands	0.7346	0.4744	0.4711
datatrieve	0.4575	-0.0828	0.0000
dating	0.0984	-0.0016	0.0000
dbworld	0.9963	0.9998	0.9973
default	0.7161	0.4418	0.4452
dementia	0.9943	0.9923	0.9937
deposit	0.7740	0.5336	0.5591
depressed	0.5348	0.0777	0.0774
dermatology	0.9336	0.9270	0.9286
desharnais	0.2406	-0.0901	0.0000
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Dataset	F1-macro	Kappa	MCC
df_final	0.7115	0.4605	0.5371
DIA	0.7574	0.4586	0.5082
diabetes-100k	0.8474	0.6870	0.6954
diagnosis	0.9961	0.9882	0.9958
diamonds	0.9968	0.9973	0.9885
diamonds_all	0.7477	0.6629	0.6646
dishonest	0.9976	1.0000	0.9960
dlbcl-nih	0.5961	0.1688	0.1888
dlbcl-stanford	0.9931	1.0000	1.0000
dna0.1%	0.4984	0.0000	0.0000
dota2	0.5967	0.1913	0.1912
drebin	0.9786	0.9589	0.9647
dropout	0.6980	0.6038	0.6039
ecoli	0.7451	0.8390	0.8372
ecoliCP-IM	0.9986	0.9914	0.9971
ecoliM	0.8838	0.7616	0.7596
ecoliMU	0.6656	0.2657	0.3113
ecoliOM	0.7331	0.4676	0.4683
ecommerce	0.2430	-0.0111	0.0000
euthyroid	0.9008	0.7994	0.8018
fakenews	0.4811	-0.0347	0.0000
fbis-wc	0.8195	0.8460	0.8532
finance	0.7353	0.4810	0.4795
financial-risk	0.6829	0.8088	0.8092
flags	0.3576	0.3856	0.4043
forest	0.8853	0.8612	0.8662
gas	0.9872	0.9947	0.9829
gastrointestinal	0.7519	0.5783	0.5993
gender	0.4804	0.2177	0.2185
german	0.6873	0.3795	0.3810
gestures	0.9183	0.8915	0.8818
gina	0.9472	0.8952	0.8919
gisette	0.9701	0.9327	0.9310
glass	0.7594	0.6747	0.6870
glass-g2	0.8889	0.7491	0.7758
glassBWFP	1.0000	0.9954	0.9963
glassBWNFP	0.8459	0.6875	0.6900
glassContainers	1.0000	0.9993	0.9979
glassNW	0.9924	0.9995	0.9938
glassTableware	0.4892	0.0000	0.0000
GlaucomaM	0.7930	0.5848	0.5900
gli_85	1.0000	0.9954	0.9963
glioma	0.8324	0.7114	0.7462
glioma-grade	0.8831	0.7567	0.7617
green	0.5187	0.0475	0.0474
gsalc	0.9936	0.9981	0.9962
haberman	0.7662	0.5240	0.5305
hapt	0.9068	0.9437	0.9465
har	0.9975	0.9899	0.9924
harth10%	0.6734	0.8379	0.8318
health-activity	0.2110	-0.0579	0.0000
heart	0.7636	0.5255	0.5308
heart-c	0.8998	0.8008	0.8010
heart-failure	0.9800	0.9700	0.9554
heart-quantum	0.9108	0.8038	0.8170
hepatitis	0.8480	0.6658	0.7073
higher	0.2091	0.1708	0.1770
hinselmann	0.4064	-0.1533	0.0000
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Dataset	F1-macro	Kappa	MCC
hitters	0.7108	0.4317	0.4316
hiv1-proteasa	0.8536	0.6956	0.6991
hiva	0.5230	0.0486	0.0485
horse	0.7359	0.5770	0.5800
hotel-reservartions	0.8844	0.7649	0.7652
hr	0.5196	0.0466	0.0481
htru2	0.9203	0.8364	0.8481
hypothyroid	0.7081	0.8415	0.8485
immuno-therapy	0.9948	0.9934	0.9935
ionosphere	0.8983	0.8075	0.8049
iris	0.9397	0.8968	0.9022
irish	1.0000	1.0000	0.9974
isolet	0.9028	0.9004	0.8981
jm1	0.6534	0.2972	0.3087
javowels	0.9635	0.9638	0.9629
kc1-class-level-numericdefect	0.3098	0.2912	0.2981
kc1-class-level-top5percentDF	0.4592	-0.0711	0.0000
kc2	0.6938	0.3844	0.3885
kdc-4007	0.7896	0.7492	0.7552
kddcup991%	0.7987	0.9970	0.9926
kidney	0.1870	-0.0097	0.0000
kidney-disease	0.9960	0.9990	0.9936
la2s-wc	0.8616	0.8533	0.8517
labor	0.8552	0.6632	0.7047
leaf	0.7240	0.7489	0.7550
led24	0.7706	0.7179	0.7144
lenses	0.9997	0.9971	0.9905
letter	0.9511	0.9463	0.9422
linkage1%	0.7866	0.4700	0.5528
loan	0.9813	0.9733	0.9778
lrs	0.6050	0.7109	0.7160
lung_discrete	0.9965	0.9978	1.0000
lymphography	0.4924	0.4507	0.4542
lymphoma2	0.6051	0.6797	0.7123
machine-failure	0.9111	0.8417	0.8557
magic04	0.8585	0.7198	0.7195
malware	0.9975	0.9875	0.9998
mammography	0.8485	0.6808	0.6911
marketing	0.7925	0.5901	0.5947
mba	0.4812	0.3772	0.4140
mental-disorders	0.9220	0.8879	0.8996
messidor	0.6808	0.3629	0.3619
meter-A	0.7914	0.5271	0.5974
meter-B	0.9951	1.0000	0.9999
meter-C	0.9935	1.0000	0.9878
meter-D	0.9176	0.9189	0.9218
mfeat-fac	0.9491	0.9472	0.9481
mfeat-fou	0.8157	0.7995	0.7938
mfeat-kar	0.9651	0.9609	0.9654
mfeat-mor	0.6832	0.6468	0.6460
mfeat-pix	0.9770	0.9754	0.9817
mfeat-zer	0.7542	0.7266	0.7330
mice-prot	0.9977	0.9971	0.9913
milk	1.0000	1.0000	0.9978
mines	0.5920	0.5214	0.5259
mobile	0.9664	0.9584	0.9581
monks-1	0.9602	0.9173	0.9262
monks-3	0.9718	0.9258	0.9315
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Dataset	F1-macro	Kappa	MCC
mushroom	1.0000	0.9960	0.9989
music	0.5528	0.4114	0.4137
MUT_ci300400a_cdk_ECFP2	0.7885	0.5810	0.5833
MUT_ci300400a_cdk_ECFP4	0.8027	0.6208	0.6228
MUT_ci300400a_cdk_ECFP6	0.7996	0.6001	0.5935
MUT_ci300400a_cdk_ESTATE	0.7379	0.4779	0.4832
MUT_ci300400a_cdk_EXTENDED	0.8331	0.6777	0.6765
MUT_ci300400a_cdk_FCFP2	0.7676	0.5279	0.5292
MUT_ci300400a_cdk_FCFP4	0.7727	0.5324	0.5372
MUT_ci300400a_cdk_FCFP6	0.7927	0.5985	0.5959
MUT_ci300400a_cdk_MACCS	0.8100	0.6409	0.6462
MUT_ci300400a_cdk_PUBCHEM	0.8394	0.6854	0.6884
MUT_ci300400a_cdk_STANDARD	0.8066	0.6215	0.6215
MUT_ci300400a_rdkit_descriptors	0.8335	0.6617	0.6676
myocardial	0.2751	0.3954	0.4134
naticusdroid	0.9715	0.9392	0.9344
nci9	0.7879	0.8019	0.8229
ncRNA10%	0.5992	0.7455	0.7487
neo	0.7544	0.4767	0.4983
new-thyroid	0.9288	0.8855	0.8959
new-thyroidT	0.8969	0.7699	0.7917
newspop	0.6614	0.3337	0.3363
NHANES_age_prediction	0.9901	0.9941	1.0000
nomao	0.9512	0.9072	0.9088
nursery	0.9699	0.9680	0.9666
obesity	0.9285	0.9246	0.9203
obs	0.9910	0.9940	0.9978
oh0-wc	0.9512	0.9387	0.9435
oh10-wc	0.8020	0.7814	0.7873
oh15-wc	0.8845	0.8619	0.8679
oh5-wc	0.8931	0.8589	0.8564
olive	0.9274	0.9150	0.9099
optdigits	0.9606	0.9645	0.9489
orlraws10P	0.9971	0.9967	0.9964
ozone1hr	0.4877	-0.0224	0.0000
p53-mutants10%	0.5001	0.0000	0.0000
parkinson	0.9923	0.9866	0.9728
particle	0.9199	0.8418	0.8400
pc1	0.7121	0.4260	0.4266
pcmac	0.5614	0.1281	0.1280
pediatric-leukemia	0.7642	0.7805	0.7837
pendigits	0.9847	0.9829	0.9883
period-10f	0.7457	0.5002	0.4933
persistence	0.8084	0.6256	0.6310
pet-adoption	0.9258	0.8649	0.8560
phishing	0.9533	0.9203	0.9142
PhiUSIIL10%	0.9871	0.9996	1.0000
phy	0.7059	0.4220	0.4215
pima	0.8023	0.6070	0.6086
pirvision	0.9714	0.9482	0.9525
placement	0.7854	0.5694	0.5686
plrx	0.3802	-0.1896	0.0000
polya	0.7740	0.5439	0.5441
popularity	0.4962	0.2717	0.2812
post-operative	0.3540	-0.2003	0.0000
postures	0.9718	0.9864	0.9789
pred-tox_mutagen_ref-desc	0.7593	0.5276	0.5264
prestige	0.8838	0.8308	0.8421
Continued on next page			

Dataset	F1-macro	Kappa	MCC
primary-tumor	0.3406	0.3916	0.3952
processed	0.9876	0.9984	0.9918
profb	0.6996	0.4031	0.4054
promoters	0.9084	0.7929	0.8097
puc-rio	0.9864	0.9946	0.9824
pufs-1281%	0.5003	-0.0010	0.0000
pufs-6410%	0.4980	0.0021	0.0022
pulsar	0.9484	0.9024	0.9054
raisin	0.9253	0.8456	0.8413
rejafada	0.9130	0.8186	0.8288
relathe	0.9881	0.9879	0.9900
rice	0.9924	0.9792	0.9723
rocket	0.7008	0.4046	0.4071
RT_IOT2022	0.9099	0.9839	0.9808
satimage	0.8888	0.8824	0.8765
scadi	0.6987	0.6324	0.6850
schiller	0.6697	0.3554	0.3545
sclerosis	0.9995	1.0000	1.0000
secom	0.4798	0.0000	0.0000
seeds	0.9526	0.9165	0.9272
segment	0.9736	0.9598	0.9588
segmentation	0.8485	0.7057	0.7067
segmentO	0.9764	0.9416	0.9443
seismic	0.6485	0.2868	0.3006
sens-2-gram	0.6418	0.2831	0.2850
sens-3-gram	0.6732	0.3430	0.3440
sens-4-gram	0.5897	0.1769	0.1828
sensorless	0.9955	0.9924	0.9966
shoppers	0.8074	0.6137	0.6211
sick	0.9163	0.8298	0.8349
sirtuin6	0.9996	0.9918	1.0000
smarket	0.9853	0.9825	0.9908
smk_can_187	0.5173	0.0336	0.0355
smoking	0.8107	0.6075	0.6190
soil_pollution	0.1975	-0.0042	0.0000
solar-flare	0.6452	0.6324	0.6428
sonar	0.5571	0.0992	0.1152
soybean	0.9724	0.9657	0.9566
spam-detection	0.8804	0.7520	0.7611
spambase	0.9244	0.8531	0.8517
spect	0.7507	0.4868	0.5116
spectf	0.7862	0.5801	0.5769
spectrometer	0.5938	0.6497	0.6535
squash-unstored	0.9942	0.9973	0.9955
startup	0.9870	0.9699	0.9770
steel_industry	0.9048	0.8717	0.8670
stellar	0.9690	0.9511	0.9470
stock	0.8113	0.6222	0.6176
stockb	0.9962	0.9898	0.9892
streaming	0.9972	0.9824	0.9769
stress	0.9637	0.9503	0.9543
student-depression	0.8277	0.6682	0.6691
student-habits	0.1939	-0.0387	0.0000
student-lifestyle	0.3822	0.3200	0.3266
student-weekend	0.2617	0.0550	0.0559
student-workday	0.2203	0.1568	0.1657
studentap	0.5929	0.4160	0.4475
swarm_aligned	0.9955	1.0000	0.9934
Continued on next page			

Dataset	F1-macro	Kappa	MCC
swarm_flocking	0.9930	0.9965	0.9925
swarm_grouped	0.9992	0.9989	0.9998
tae	0.5450	0.2982	0.3069
telco-churn	0.8774	0.7491	0.7506
texture	0.9735	0.9782	0.9729
theorem	0.9964	0.9932	0.9986
thoracic	0.5700	0.1215	0.1359
Thyroid_Diff	0.9288	0.8691	0.8660
tis	0.8871	0.7564	0.7639
titanic	0.7240	0.4534	0.4528
tourist	0.5272	0.6342	0.6777
trains	0.3330	0.0000	0.0000
transfusion	0.5344	0.0626	0.0664
tuandromd	0.9600	0.9182	0.9258
turkish	0.7676	0.7033	0.7036
tvnews	0.9390	0.8787	0.8836
ur3_cobotops_grip	0.7439	0.4882	0.4920
ur3_cobotops_stop	0.8108	0.5897	0.6117
urban	0.8662	0.8420	0.8449
ustilago10%	0.5019	0.0000	0.0000
vehicle	0.6830	0.6299	0.6390
vote	0.9262	0.8518	0.8583
vowel	0.6655	0.6021	0.6071
wap-wc	0.7124	0.8153	0.8191
warpar10p	0.7041	0.7380	0.7548
warppie10p	0.9955	0.9988	0.9973
waveform	0.8388	0.7521	0.7555
weather-related	0.9758	0.9744	0.9667
weight-lift	0.9950	0.9991	0.9976
white-clover	0.4976	0.0000	0.0000
wifi-loc	0.9925	0.9967	0.9863
wilt	0.9104	0.8298	0.8291
wine	1.0000	0.9977	0.9949
winequality-red	0.3076	0.3945	0.3981
winequality-white	0.4280	0.4272	0.4283
winnipeg10%	0.9899	0.9873	0.9795
wisc.bc	0.9442	0.8922	0.8947
yale	0.7293	0.7314	0.7428
yeast	0.4889	0.4903	0.4928
yeastCYT-POX	0.9022	0.7872	0.8055
yeastEXC	0.6793	0.3401	0.3573
yeastME1	0.7351	0.4066	0.4489
yeastME2	0.6818	0.3671	0.3673
zip	0.9300	0.9325	0.9260

Table 53: Detailed results for SVC 5

Dataset	F1-macro	Kappa	MCC
abalone	0.1223	0.0720	0.0750
abalone19	0.4863	-0.0116	0.0000
accelerometer	0.4932	0.0000	0.0000
ads	0.9267	0.8646	0.8693
advanced-iot	0.9926	0.9914	0.9930
AID_1431	0.5115	0.0231	0.0235
AID_1431_KlekotaRothFingerprinter	0.4587	-0.0652	0.0000
AID_1431_MACCSFingerprinter	0.4555	-0.0846	0.0000
AID_1878	0.5766	0.1640	0.1648
AID_602330	0.5378	0.0762	0.0766
AID_652128	0.2979	-0.0376	0.0000
AID1284red	0.6221	0.2491	0.2525
AID1608Mored	0.4509	-0.0907	0.0000
AID1608red	0.4474	-0.0835	0.0000
AID362red	0.5672	0.1405	0.1415
AID456red	0.4935	-0.0044	0.0000
AID688red	0.4977	0.0000	0.0000
AID721mored	0.3976	-0.1738	0.0000
AID721red	0.4357	0.0000	0.0000
aids	0.8508	0.6922	0.7099
air_pollution	0.1419	0.0210	0.0214
alcohol	0.5935	0.6534	0.6767
all-aml	0.9962	0.9966	0.9951
anneal	0.9173	0.9330	0.9300
antivirus	0.9963	0.9993	0.9987
anuran-f-b	0.9614	0.9226	0.9124
anxiety	0.0935	-0.0055	0.0000
apple-quality	0.9227	0.8493	0.8435
arcene	0.8436	0.6745	0.6796
arrhythmia	0.4638	0.4481	0.4845
auction	0.8278	0.6175	0.6529
audiology	0.9451	0.8934	0.8925
audit-risk	0.9495	0.8889	0.8903
autism-adolescent	1.0000	0.9867	1.0000
autism-adult	0.9771	0.9607	0.9597
autism-child	0.9896	0.9927	0.9930
autos	0.9481	0.9278	0.9340
avila	0.9291	0.9823	0.9563
balance	0.8403	0.9123	0.9060
bankruptcy	0.9943	1.0000	0.9982
biodeg	0.8617	0.7359	0.7312
biomed	0.9114	0.8018	0.8274
body-perf	0.7127	0.6006	0.6036
brain-tumor	0.5040	0.0129	0.0129
breast-cancer	0.6191	0.2376	0.2507
breast-cancer-ma	0.5351	0.0678	0.0691
breast-tissue	0.8402	0.7777	0.7871
bridges	0.6049	0.5892	0.6082
cad	0.9940	0.9943	0.9935
cancer	0.9991	0.9931	0.9961
cancer-uae	0.3204	-0.0280	0.0000
car-insurance	0.8043	0.6202	0.6181
cardiotocography-nsp	0.8173	0.7289	0.7295
cardiovascular	0.7255	0.4641	0.4751
cargo2k	0.9901	1.0000	0.9940
Continued on next page			

Dataset	F1-macro	Kappa	MCC
cars	0.6788	0.5128	0.5285
cervical-B	0.8482	0.7111	0.7063
cervical-H	0.7679	0.5148	0.5374
cervical-S	0.8841	0.7446	0.7678
children-anemia	0.8772	0.8447	0.8388
churn	0.7335	0.4404	0.4577
cjs	1.0000	0.9955	0.9977
ckd	0.9873	0.9953	0.9941
clave	0.7444	0.7853	0.7853
cll_sub_111	0.6962	0.4269	0.4510
cmc	0.4855	0.2253	0.2264
cnae-9	0.9389	0.9427	0.9370
codon_usage	0.8160	0.9284	0.9239
coil20	1.0000	0.9916	1.0000
college	0.9119	0.8295	0.8384
collins	0.6141	0.6928	0.6947
colon-tumor	0.6628	0.1811	0.3141
colposcopies-1	0.7193	0.4249	0.4398
colposcopies-2	0.6511	0.2468	0.3050
colposcopies-4	0.5752	0.1494	0.1525
colposcopies-5	0.4524	0.0000	0.0000
colposcopies-c	0.7434	0.4456	0.4716
column-2c	0.8914	0.7835	0.7917
column-3c	0.7386	0.6802	0.6840
coupon	0.7388	0.4750	0.4830
covtypeCD	0.9766	0.9616	0.9529
crabs	0.9997	0.9924	0.9908
crowdsourced	0.8705	0.9162	0.9158
cryotherapy	0.9966	0.9986	0.9930
cultivars	0.5262	0.5751	0.5829
cybersecurity	0.1847	0.0225	0.0226
cyclopentane	0.7749	0.5540	0.5450
cylinder-bands	0.7469	0.4806	0.4892
datatrieve	0.4571	-0.0834	0.0000
dbworld	0.9923	0.9972	0.9957
default	0.7024	0.3719	0.4090
dementia	0.9930	1.0000	0.9994
depressed	0.5539	0.0707	0.0928
dermatology	0.9738	0.9704	0.9647
desharnais	0.3466	0.0904	0.1080
df_final	0.8280	0.7099	0.7229
DIA	0.8131	0.6263	0.6255
diagnosis	1.0000	1.0000	0.9922
diamonds	0.9667	0.9750	0.9747
diamonds_all	0.7799	0.6927	0.6990
dishonest	1.0000	0.9943	0.9986
dlbcl-nih	0.5981	0.1939	0.2023
dlbcl-stanford	0.8367	0.6135	0.6638
drebin	0.9836	0.9761	0.9752
dropout	0.6665	0.5865	0.5882
ecoli	0.7777	0.8732	0.8792
ecoliCP-IM	0.9940	0.9920	0.9979
ecoliM	0.7773	0.5447	0.5460
ecoliMU	0.8126	0.6344	0.6295
ecoliOM	0.8490	0.6473	0.6887
ecommerce	0.2411	-0.0124	0.0000
euthyroid	0.8632	0.7146	0.7187
fakenews	0.5065	0.0146	0.0147
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Dataset	F1-macro	Kappa	MCC
fbis-wc	0.7966	0.8013	0.8076
finance	0.9322	0.8736	0.8826
financial-risk	0.6118	0.7439	0.7444
flags	0.4001	0.5496	0.5512
forest	0.8905	0.8862	0.8929
gas	0.9920	0.9985	0.9886
gastrointestinal	0.7362	0.5931	0.5931
gender	0.4274	0.1504	0.1588
german	0.6395	0.2500	0.2811
gestures	0.9071	0.8762	0.8764
gina	0.9171	0.8490	0.8441
gisette	0.9653	0.9321	0.9312
glass	0.6261	0.4837	0.4899
glass-g2	0.7322	0.4624	0.4682
glassBWFP	0.8464	0.6709	0.7127
glassBWNFP	0.7262	0.4387	0.4465
glassContainers	0.9949	0.9961	1.0000
glassNW	0.9304	0.8489	0.8664
glassTableware	0.4744	-0.0472	0.0000
GlaucomaM	0.8412	0.6807	0.6881
gli_85	0.9950	0.9936	0.9954
glioma	0.8270	0.7048	0.7471
glioma-grade	0.8877	0.7579	0.7648
green	0.5187	0.0474	0.0477
gsalc	0.9944	0.9935	0.9882
haberman	0.6552	0.2541	0.3022
hapt	0.8718	0.9434	0.9446
har	0.9823	0.9854	0.9799
health-activity	0.2479	0.0436	0.0459
heart	0.7607	0.5212	0.5306
heart-c	0.9599	0.9318	0.9235
heart-failure	0.9602	0.9285	0.9258
heart-quantum	0.9376	0.8725	0.8744
hepatitis	0.8545	0.6623	0.7087
higher	0.0623	0.0492	0.0608
hinselmann	0.4095	-0.1538	0.0000
hitters	0.9327	0.8758	0.8699
hiv1-proteasa	0.8430	0.6934	0.7002
hiva	0.5217	0.0530	0.0545
horse	0.5118	0.2883	0.2857
hotel-reservartions	0.8841	0.7715	0.7749
hr	0.5451	0.0840	0.0837
htru2	0.9332	0.8645	0.8689
hypothyroid	0.6811	0.8340	0.8299
immuno-therapy	0.6771	0.3570	0.3560
ionosphere	0.9027	0.8130	0.8228
iris	0.9978	0.9942	1.0000
irish	0.9988	1.0000	0.9995
isolet	0.9376	0.9265	0.9312
jm1	0.6246	0.1944	0.2292
fvowels	0.9893	0.9984	0.9934
kc1-class-level-numericdefect	0.3624	0.2917	0.2950
kc1-class-level-top5percentDF	0.4427	-0.0971	0.0000
kc2	0.5997	0.2010	0.2080
kidney	0.1779	0.0000	0.0000
kidney-disease	0.9464	0.8851	0.8934
labor	0.8457	0.6617	0.7023
leaf	0.6798	0.7171	0.7232
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Dataset	F1-macro	Kappa	MCC
led24	0.7324	0.6585	0.6612
lenses	0.1657	0.0000	0.0000
letter	0.9742	0.9688	0.9689
linkage1%	0.9399	0.8985	0.8976
loan	0.9244	0.8525	0.8551
lrs	0.7395	0.8386	0.8462
lung_discrete	0.9997	0.9920	0.9954
lymphography	0.4898	0.4525	0.4553
lymphoma2	0.9961	0.9874	0.9944
machine-failure	0.9013	0.7988	0.8004
magic04	0.8624	0.7050	0.7206
malware	1.0000	0.9992	0.9906
mammography	0.8490	0.7023	0.7032
marketing	0.8059	0.5932	0.6209
mba	0.3752	0.1337	0.1337
mental-disorders	0.9213	0.8782	0.8919
messidor	0.7252	0.4569	0.4605
meter-A	0.7187	0.3314	0.4468
meter-B	0.9896	0.9877	0.9945
meter-C	0.9284	0.9133	0.9315
meter-D	0.8683	0.8436	0.8391
mfeat-fac	0.9866	0.9787	0.9780
mfeat-fou	0.8161	0.7892	0.7935
mfeat-kar	0.9879	0.9773	0.9732
mfeat-mor	0.7297	0.6954	0.6941
mfeat-pix	0.9805	0.9731	0.9763
mfeat-zer	0.8242	0.8058	0.8045
mice-prot	0.9921	0.9979	0.9911
milk	0.9958	1.0000	0.9885
mines	0.5928	0.4817	0.4927
mobile	0.8621	0.8455	0.8536
monks-1	0.9773	0.9552	0.9631
monks-3	0.9653	0.9193	0.9264
mushroom	0.9910	0.9920	0.9963
music	0.5429	0.3977	0.4131
MUT_ci300400a_cdk_ECFP2	0.8223	0.6385	0.6409
MUT_ci300400a_cdk_ECFP4	0.8234	0.6401	0.6454
MUT_ci300400a_cdk_ECFP6	0.7908	0.5804	0.5862
MUT_ci300400a_cdk_ESTATE	0.7574	0.5306	0.5332
MUT_ci300400a_cdk_FCFP2	0.8339	0.6710	0.6695
MUT_ci300400a_cdk_FCFP4	0.8079	0.6140	0.6227
MUT_ci300400a_cdk_FCFP6	0.7959	0.5961	0.5960
MUT_ci300400a_cdk_MACCS	0.8351	0.6664	0.6701
MUT_ci300400a_cdk_PUBCHEM	0.8499	0.7067	0.7113
MUT_ci300400a_rdkit_descriptors	0.8270	0.6573	0.6608
myocardial	0.2498	0.2909	0.3197
naticusdroid	0.9620	0.9331	0.9414
nci9	0.7911	0.7979	0.8270
neo	0.6898	0.2189	0.3152
new-thyroid	0.8983	0.8924	0.9007
new-thyroidT	0.9935	0.9992	0.9956
NHANES_age_prediction	0.9729	0.9512	0.9434
nursery	1.0000	1.0000	0.9914
obesity	0.8989	0.8727	0.8844
obs	0.9948	0.9897	0.9990
oh0-wc	0.7578	0.7702	0.7756
oh10-wc	0.6059	0.6166	0.6235
oh15-wc	0.6786	0.6580	0.6655
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Dataset	F1-macro	Kappa	MCC
oh5-wc	0.7599	0.7150	0.7096
olive	0.8924	0.8919	0.8930
optdigits	0.9824	0.9785	0.9780
orlraws10P	0.9951	0.9979	1.0000
ozone1hr	0.5671	0.1271	0.1323
p53-mutants10%	0.4887	-0.0059	0.0000
parkinson	0.9769	0.9636	0.9692
pc1	0.6989	0.3914	0.3954
pcmac	0.4953	-0.0032	0.0000
pendigits	0.9873	0.9903	0.9941
period-10f	0.4173	-0.1534	0.0000
persistence	0.7791	0.5650	0.5740
pet-adoption	0.9008	0.8141	0.8177
phishing	0.9546	0.9139	0.9144
PhiUSIIL10%	0.9980	0.9935	0.9981
pima	0.7094	0.3653	0.4088
pirvision	0.9939	0.9675	0.9809
placement	0.7862	0.5654	0.5647
plrx	0.5849	0.1687	0.1679
polya	0.7654	0.5378	0.5417
post-operative	0.4044	0.0000	0.0000
pred-tox_mutagen_ref-desc	0.6999	0.4112	0.4140
prestige	0.8820	0.8245	0.8463
primary-tumor	0.3740	0.4220	0.4275
profb	0.7387	0.4739	0.4743
promoters	0.7932	0.5810	0.5793
pulsar	0.9468	0.8782	0.8797
raisin	0.9109	0.8209	0.8161
rejafada	0.4917	0.0000	0.0000
relathe	0.9897	0.9749	0.9691
rice	0.9817	0.9757	0.9720
rocket	0.6435	0.2929	0.2906
satimage	0.8938	0.8837	0.8887
scadi	0.6900	0.6272	0.6850
schiller	0.5924	0.1815	0.1886
sclerosis	0.9931	0.9929	0.9988
secom	0.5708	0.1252	0.1333
seeds	0.9557	0.9260	0.9268
segment	0.9408	0.9341	0.9279
segmentation	0.8055	0.6065	0.6016
segmentO	0.9853	0.9933	1.0000
seismic	0.6209	0.2329	0.2357
sens-2-gram	0.6360	0.2671	0.2722
sens-3-gram	0.5563	0.1134	0.1138
shoppers	0.7659	0.5091	0.5263
sick	0.7348	0.4774	0.4760
sirtuin6	0.9089	0.7953	0.8178
smarket	0.9720	0.9558	0.9474
smk.can.187	0.7876	0.5789	0.5735
smoking	0.7578	0.5466	0.5385
soil_pollution	0.2006	0.0001	0.0001
solar-flare	0.6178	0.6982	0.6958
sonar	0.6550	0.2977	0.3156
soybean	0.9802	0.9741	0.9834
spam-detection	0.8505	0.7180	0.7117
spambase	0.8899	0.8044	0.7984
spect	0.4992	0.0000	0.0000
spectf	0.8570	0.6801	0.7154
Continued on next page			

Dataset	F1-macro	Kappa	MCC
spectrometer	0.6201	0.6962	0.6943
squash-unstored	0.9910	0.9998	0.9931
startup	0.9949	1.0000	1.0000
steel_industry	0.8758	0.8537	0.8545
stellar	0.9615	0.9585	0.9414
stock	0.8197	0.6292	0.6385
stockb	0.9943	1.0000	1.0000
streaming	0.9125	0.8248	0.8346
stress	1.0000	0.9971	0.9951
student-habits	0.2294	0.1380	0.1408
student-lifestyle	0.3246	0.3031	0.3073
student-weekend	0.2754	0.1156	0.1194
student-workday	0.2550	0.2965	0.3035
studentap	0.4572	0.1713	0.1786
tae	0.5397	0.2977	0.3051
telco-churn	0.8676	0.7307	0.7326
texture	0.9938	0.9891	0.9897
theorem	0.9892	0.9955	0.9948
thoracic	0.4531	-0.0384	0.0000
Thyroid_Diff	0.9261	0.8772	0.8745
titanic	0.7785	0.5525	0.5639
tourist	0.5237	0.6344	0.6848
trains	1.0000	0.9997	0.9915
transfusion	0.4800	-0.0286	0.0000
tuandromd	0.9891	0.9788	0.9741
turkish	0.8268	0.7648	0.7701
ur3_cobotops_grip	0.6821	0.3668	0.3719
ur3_cobotops_stop	0.6997	0.2390	0.3361
urban	0.8326	0.7675	0.7716
vehicle	0.7871	0.7441	0.7409
vote	0.9367	0.8566	0.8621
vowel	0.7383	0.6809	0.6811
wap-wc	0.5653	0.7538	0.7495
warpar10p	0.9513	0.9079	0.9191
warppie10p	0.9907	1.0000	0.9937
waveform	0.8276	0.7536	0.7506
weather-related	0.9770	0.9769	0.9631
white-clover	0.6256	0.2486	0.2479
wifi-loc	0.9845	0.9694	0.9860
wilt	0.8746	0.7567	0.7522
wine	0.9391	0.8919	0.9007
winequality-red	0.3010	0.3921	0.3928
winequality-white	0.4311	0.4485	0.4608
wisc_bc	0.9650	0.9214	0.9254
yale	0.7592	0.7925	0.8051
yeast	0.3874	0.4200	0.4275
yeastCYT-POX	0.9030	0.7848	0.8102
yeastEXC	0.4834	-0.0183	0.0000
yeastME1	0.6907	0.3791	0.3838
yeastME2	0.6201	0.2490	0.2495
zip	0.9560	0.9520	0.9496

Table 54: Detailed results for RotationForest 5

Dataset	F1-macro	Kappa	MCC
abalone	0.1071	0.0604	0.0618
abalone19	0.4865	-0.0116	0.0000
accelerometer	0.4945	0.0000	0.0000
ads	0.9307	0.8708	0.8640
advanced-iot	0.9952	0.9986	0.9914
AID.1431	0.4727	-0.0149	0.0000
AID.1431_KlekotaRothFingerprinter	0.4501	-0.0954	0.0000
AID.1431_MACCSFingerprinter	0.4666	-0.0384	0.0000
AID.1878	0.5924	0.1707	0.1846
AID.602330	0.4854	-0.0169	0.0000
AID.652128	0.3115	0.0000	0.0000
AID1284red	0.7351	0.4381	0.4566
AID1608Mored	0.5560	0.1167	0.1182
AID1608red	0.4665	-0.0665	0.0000
AID362red	0.6563	0.2597	0.2906
AID456red	0.4877	-0.0055	0.0000
AID688red	0.4965	-0.0060	0.0000
AID721mored	0.4366	0.0000	0.0000
AID721red	0.4368	0.0000	0.0000
aids	0.8354	0.6754	0.6769
air_pollution	0.1553	0.0050	0.0050
alcohol	0.6173	0.6141	0.6253
all-aml	0.9954	0.9964	0.9936
anneal	0.9669	0.9310	0.9299
antivirus	0.9927	0.9925	0.9976
anuran-f-b	1.0000	0.9958	1.0000
anxiety	0.0759	-0.0324	0.0000
apple-quality	0.8664	0.7364	0.7450
arcene	0.7427	0.4855	0.4902
arrhythmia	0.7036	0.6828	0.6818
auction	0.9782	0.9721	0.9796
audiology	0.7187	0.7823	0.7921
audit-risk	0.9933	0.9939	0.9970
autism-adolescent	0.9948	0.9926	1.0000
autism-adult	0.9941	0.9972	0.9920
autism-child	1.0000	1.0000	0.9958
autos	0.8511	0.8056	0.8046
avila	0.9819	0.9893	0.9955
balance	0.6532	0.6912	0.7009
bankruptcy	1.0000	0.9920	0.9938
bio	0.9034	0.8065	0.8097
biodeg	0.8932	0.7736	0.7859
biomed	1.0000	0.9982	0.9963
bitcoin10%	0.2906	0.3928	0.3961
body-perf	0.7354	0.6441	0.6424
brain-tumor	0.4977	0.0009	0.0009
breast-cancer	0.7253	0.4487	0.4601
breast-cancer-ma	0.5344	0.0673	0.0688
breast-tissue	0.5967	0.5616	0.5633
bridges	0.7894	0.8520	0.8686
bub12at310k-hg16-17	0.6916	0.3717	0.3871
cad	1.0000	1.0000	0.9911
cancer	0.9937	0.9881	0.9906
cancer-uae	0.2995	-0.0376	0.0000
car-insurance	0.8161	0.6357	0.6340
Continued on next page			

Dataset	F1-macro	Kappa	MCC
cardiotocography-nsp	0.8594	0.7967	0.7943
cardiovascular	0.7207	0.4661	0.4760
cargo2k	0.9902	0.9988	1.0000
cars	0.5660	0.4405	0.4495
cdc_diabetes	0.4585	0.3288	0.3483
census	0.7565	0.4712	0.5144
cervical-B	0.9068	0.8173	0.8148
cervical-H	0.7710	0.4322	0.5181
cervical-S	0.8419	0.6872	0.6883
children-anemia	0.9153	0.9069	0.9107
chrom211%	0.4980	0.0000	0.0000
churn	0.7486	0.5065	0.5066
cjs	0.9855	0.9821	0.9756
ckd	1.0000	0.9983	1.0000
clave	0.6953	0.7039	0.7054
cll_sub_111	0.6376	0.3018	0.3065
cmc	0.5323	0.3118	0.3139
cnae-9	0.9476	0.9354	0.9364
codon_usage	0.7957	0.9164	0.9097
coil20	0.9867	0.9962	1.0000
college	0.8775	0.7731	0.7707
collins	0.8477	0.8227	0.8206
colon-tumor	0.8525	0.6654	0.7075
colposcopies-1	0.6782	0.3580	0.3616
colposcopies-2	0.7211	0.3160	0.4313
colposcopies-4	0.6257	0.2512	0.2559
colposcopies-5	0.4297	-0.1086	0.0000
colposcopies-c	0.8531	0.6660	0.7101
column-2c	0.8964	0.7823	0.7887
column-3c	0.6868	0.6251	0.6330
coupon	0.7323	0.4795	0.4795
covtypeCD	0.9562	0.8995	0.9114
crabs	0.9141	0.8679	0.8773
crowdsourced	0.8707	0.8899	0.8853
cryotherapy	0.7430	0.3704	0.4735
cultivars	0.4720	0.5132	0.5226
cybersecurity	0.1891	0.0245	0.0246
cyclopentane	0.6969	0.3993	0.3987
cylinder-bands	0.7627	0.5112	0.5185
datatrieve	0.4064	-0.1306	0.0000
dbworld	0.9979	0.9956	0.9931
default	0.7049	0.3786	0.4160
dementia	0.9898	0.9960	0.9959
depressed	0.5422	0.0987	0.0993
dermatology	0.9383	0.9282	0.9310
desharnais	0.3154	0.0244	0.0263
df_final	0.6338	0.4521	0.5007
DIA	0.8468	0.6244	0.6769
diagnosis	0.9903	0.9951	0.9981
diamonds	1.0000	0.9988	0.9929
diamonds_all	0.7887	0.6933	0.7082
dishonest	1.0000	0.9966	0.9954
dlbcl-nih	0.6006	0.1930	0.2021
dlbcl-stanford	0.8294	0.6085	0.6659
drebin	0.9831	0.9641	0.9639
dropout	0.6912	0.6033	0.6016
ecoli	0.7779	0.8789	0.8719
ecoliCP-IM	0.9931	0.9976	0.9979
Continued on next page			

Dataset	F1-macro	Kappa	MCC
ecoliM	0.8486	0.7004	0.7040
ecoliMU	0.6428	0.2287	0.2783
ecoliOM	0.7369	0.4672	0.4640
ecommerce	0.2476	0.0001	0.0001
euthyroid	0.8921	0.7884	0.7852
fakenews	0.5164	0.0296	0.0296
fbis-wc	0.8488	0.8494	0.8532
finance	0.7335	0.4793	0.4817
financial-risk	0.6846	0.8203	0.8191
flags	0.3895	0.4449	0.4651
forest	0.9014	0.8930	0.8961
gas	0.9998	0.9937	0.9981
gastrointestinal	0.8253	0.6955	0.7158
gender	0.4849	0.2215	0.2208
german	0.6790	0.3685	0.3661
gestures	0.9180	0.8938	0.8978
gina	0.9392	0.8966	0.8963
gisette	0.9528	0.9235	0.9195
glass	0.7694	0.7300	0.7393
glass-g2	0.9943	1.0000	0.9905
glassBWFP	0.9991	0.9913	0.9939
glassBWNFP	0.7332	0.4810	0.4826
glassContainers	0.9919	1.0000	0.9967
glassNW	0.9952	1.0000	0.9909
glassTableware	0.9975	0.9998	0.9999
GlaucomaM	0.8492	0.6796	0.6831
gli_85	0.9953	0.9986	1.0000
glioma	0.8277	0.7039	0.7463
glioma-grade	0.8942	0.7763	0.7794
green	0.6068	0.2097	0.2161
gsalc	0.9909	0.9996	0.9986
haberman	0.6559	0.3188	0.3160
hapt	0.8773	0.9444	0.9545
har	0.9961	0.9902	0.9967
health-activity	0.3354	0.0686	0.1863
heart	0.7687	0.5254	0.5323
heart-c	0.8996	0.8038	0.8018
heart-failure	0.9666	0.9595	0.9518
heart-quantum	0.8960	0.7996	0.8116
hepatitis	0.8534	0.6641	0.7040
higher	0.0825	-0.0519	0.0000
hinselmann	0.4127	-0.1543	0.0000
hitters	0.7452	0.5011	0.4986
hiv1-proteasa	0.8607	0.7120	0.7206
hiva	0.5886	0.1871	0.1873
horse	0.7399	0.5768	0.5779
hotel-reservartions	0.8897	0.7791	0.7736
hr	0.4986	-0.0051	0.0000
htru2	0.9207	0.8566	0.8573
hypothyroid	0.7053	0.8524	0.8583
immuno-therapy	1.0000	1.0000	0.9915
ionosphere	0.9040	0.8081	0.8097
iris	1.0000	0.9972	0.9993
irish	0.9753	0.9557	0.9556
isolet	0.9058	0.9019	0.8965
jm1	0.6498	0.2946	0.3057
jvowels	0.9694	0.9638	0.9597
kc1-class-level-numericdefect	0.4125	0.3497	0.3681
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Dataset	F1-macro	Kappa	MCC
kc1-class-level-top5percentDF	0.4409	-0.0971	0.0000
kc2	0.7097	0.4202	0.4254
kidney	0.1781	0.0000	0.0000
kidney-disease	1.0000	1.0000	0.9907
la2s-wc	0.8756	0.8683	0.8667
labor	0.8537	0.6593	0.7010
leaf	0.6550	0.6872	0.7009
led24	0.7807	0.7099	0.7170
lenses	0.5692	0.5018	0.6063
letter	0.9489	0.9473	0.9484
linkage1%	0.9596	0.9112	0.9096
loan	0.9888	0.9859	0.9754
lrs	0.6129	0.7381	0.7432
lung_discrete	0.9917	1.0000	0.9983
lymphography	0.4932	0.4529	0.4568
lymphoma2	0.7851	0.8481	0.8604
machine-failure	0.9004	0.8014	0.8042
magic04	0.8564	0.7111	0.7165
malware	0.9937	0.9962	0.9998
mammography	0.8535	0.7034	0.7061
marketing	0.7004	0.4143	0.4140
mba	0.4776	0.3659	0.4162
mental-disorders	0.9225	0.8849	0.8946
messidor	0.6804	0.3642	0.3601
meter-A	0.7962	0.5263	0.5980
meter-B	0.9899	0.9963	1.0000
meter-C	0.9571	0.9158	0.9295
meter-D	0.9996	0.9993	0.9920
mfeat-fac	0.9598	0.9541	0.9538
mfeat-fou	0.8126	0.7901	0.7887
mfeat-kar	0.9669	0.9633	0.9673
mfeat-mor	0.6988	0.6560	0.6576
mfeat-pix	0.9908	0.9808	0.9694
mfeat-zer	0.7724	0.7414	0.7441
mice-prot	0.9951	0.9932	0.9960
milk	0.9979	0.9949	0.9932
mines	0.5259	0.4446	0.4482
mobile	0.9531	0.9496	0.9490
monks-1	0.9995	0.9924	0.9979
monks-3	0.9566	0.9273	0.9298
mushroom	1.0000	0.9965	0.9977
music	0.5491	0.4135	0.4098
MUT_ci300400a_cdk_ECFP2	0.7829	0.5693	0.5784
MUT_ci300400a_cdk_ECFP4	0.8051	0.6082	0.6076
MUT_ci300400a_cdk_ECFP6	0.8008	0.5957	0.6011
MUT_ci300400a_cdk_ESTATE	0.7475	0.4867	0.4942
MUT_ci300400a_cdk_EXTENDED	0.8350	0.6672	0.6737
MUT_ci300400a_cdk_FCFP2	0.7573	0.5157	0.5174
MUT_ci300400a_cdk_FCFP4	0.7617	0.5286	0.5350
MUT_ci300400a_cdk_FCFP6	0.8032	0.5968	0.5942
MUT_ci300400a_cdk_MACCS	0.8182	0.6334	0.6341
MUT_ci300400a_cdk_PUBCHEM	0.8382	0.6744	0.6711
MUT_ci300400a_cdk_STANDARD	0.8123	0.6312	0.6342
MUT_ci300400a_rdkit_descriptors	0.8314	0.6755	0.6781
myocardial	0.3019	0.3988	0.4058
naticusdroid	0.9684	0.9343	0.9304
nci9	0.7916	0.8004	0.8237
ncRNA10%	0.5953	0.7393	0.7475
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Dataset	F1-macro	Kappa	MCC
neo	0.6780	0.2182	0.3171
new-thyroid	0.9982	0.9924	0.9943
new-thyroidT	0.9954	0.9983	0.9982
NHANES_age_prediction	0.9995	0.9963	0.9943
nursery	0.9598	0.9614	0.9695
obesity	0.9272	0.9101	0.9097
obs	0.9915	0.9943	0.9946
oh0-wc	0.9427	0.9405	0.9416
oh10-wc	0.8020	0.7735	0.7737
oh15-wc	0.8755	0.8641	0.8585
oh5-wc	0.9136	0.8969	0.9029
olive	0.9444	0.9325	0.9244
optdigits	0.9560	0.9580	0.9557
orlraws10P	1.0000	0.9997	1.0000
ozone1hr	0.6272	0.1707	0.2233
p53-mutants10%	0.4960	0.0000	0.0000
parkinson	0.9892	0.9760	0.9703
particle	0.9212	0.8416	0.8467
pc1	0.6966	0.3956	0.3954
pcmac	0.4658	-0.0657	0.0000
pediatric-leukemia	0.7595	0.7776	0.7840
pendigits	0.9959	0.9849	0.9876
period-10f	0.7484	0.4975	0.4978
persistence	0.8195	0.6464	0.6475
pet-adoption	0.9288	0.8570	0.8551
phishing	0.9535	0.9173	0.9188
PhiUSIIL10%	0.9995	1.0000	0.9927
pima	0.7329	0.4580	0.4671
pirvision	0.9727	0.9556	0.9513
placement	0.7843	0.5704	0.5694
plrx	0.5279	0.0525	0.0553
polya	0.7689	0.5274	0.5317
post-operative	0.3573	-0.1992	0.0000
pred-tox_mutagen_ref-desc	0.7311	0.4673	0.4708
prestige	0.8822	0.8264	0.8517
primary-tumor	0.3707	0.3984	0.4025
profb	0.6889	0.3672	0.3722
promoters	0.9069	0.7998	0.8100
pulsar	0.9376	0.8781	0.8904
raisin	0.8955	0.7977	0.7967
rejafada	0.8974	0.7685	0.7861
relathe	0.9895	0.9819	0.9783
rice	0.9873	0.9646	0.9725
rocket	0.7139	0.4282	0.4321
satimage	0.8796	0.8788	0.8774
scadi	0.6963	0.6288	0.6829
schiller	0.5949	0.1820	0.1884
sclerosis	0.9928	0.9958	0.9949
secom	0.4822	0.0000	0.0000
seeds	0.9523	0.9285	0.9236
segment	0.9638	0.9629	0.9540
segmentation	0.8467	0.7002	0.6988
segmentO	0.9746	0.9626	0.9670
seismic	0.6361	0.2573	0.2664
sens-2-gram	0.6451	0.2874	0.2920
sens-3-gram	0.6732	0.3371	0.3435
sens-4-gram	0.6118	0.1955	0.2210
shoppers	0.7978	0.6073	0.6068
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Dataset	F1-macro	Kappa	MCC
sick	0.9283	0.8731	0.8701
sirtuin6	0.9983	0.9997	1.0000
smarket	0.9865	0.9826	0.9776
smk_can_187	0.5749	0.1359	0.1502
smoking	0.7827	0.5405	0.5356
soil_pollution	0.1877	-0.0129	0.0000
solar-flare	0.6699	0.6579	0.6669
sonar	0.6529	0.2971	0.3130
soybean	0.9709	0.9642	0.9679
spam-detection	0.8755	0.7582	0.7692
spambase	0.9339	0.8682	0.8635
spect	0.5204	0.0385	0.0418
spectf	0.8534	0.6996	0.7054
spectrometer	0.6487	0.6946	0.6919
squash-unstored	0.9990	0.9904	1.0000
startup	0.9819	0.9758	0.9725
steel_industry	0.8907	0.8458	0.8461
stellar	0.9633	0.9619	0.9605
stock	0.8182	0.6300	0.6268
stockb	0.9875	0.9977	0.9942
streaming	0.9953	1.0000	0.9989
stress	0.9613	0.9543	0.9594
student-depression	0.8261	0.6644	0.6589
student-habits	0.2966	0.0629	0.0638
student-lifestyle	0.4237	0.4089	0.4090
student-weekend	0.2927	0.1539	0.1573
student-workday	0.2261	0.2138	0.2215
studentap	0.5076	0.2904	0.2892
tae	0.5433	0.2994	0.3046
telco-churn	0.8718	0.7584	0.7497
texture	0.9738	0.9754	0.9757
theorem	0.9987	0.9975	0.9969
thoracic	0.6226	0.2364	0.2409
Thyroid_Diff	0.9297	0.8644	0.8687
tis	0.8702	0.7515	0.7557
titanic	0.7256	0.4544	0.4591
tourist	0.5228	0.6333	0.6844
trains	0.3331	0.0000	0.0000
transfusion	0.5095	0.0184	0.0202
tuandromd	0.9599	0.9145	0.9193
turkish	0.7198	0.6305	0.6314
tvnews	0.9338	0.8803	0.8776
ur3_cobotops_grip	0.7490	0.4928	0.5011
ur3_cobotops_stop	0.8378	0.6872	0.6881
urban	0.8496	0.8026	0.8084
vehicle	0.6881	0.6594	0.6613
vote	0.9219	0.8527	0.8638
vowel	0.6599	0.5965	0.6113
wap-wc	0.6458	0.7862	0.7911
warpar10p	0.7021	0.7315	0.7539
warppie10p	0.9880	0.9983	0.9920
waveform	0.8450	0.7638	0.7736
weather-related	0.9697	0.9586	0.9645
white-clover	0.6585	0.1824	0.3161
wifi-loc	0.9989	0.9911	0.9843
wilt	0.8707	0.7523	0.7527
wine	0.9929	1.0000	0.9962
winequality-red	0.3107	0.3845	0.3896
Continued on next page			

Dataset	F1-macro	Kappa	MCC
winequality-white	0.4304	0.4292	0.4312
wisc_bc	0.9756	0.9609	0.9606
yale	0.8005	0.7935	0.8090
yeast	0.4545	0.4844	0.4915
yeastCYT-POX	0.9050	0.7952	0.8059
yeastEXC	0.6942	0.3769	0.3892
yeastME1	0.7542	0.4809	0.5098
yeastME2	0.7168	0.4390	0.4360
zip	0.9345	0.9291	0.9322

Table 55: Detailed results for BalancedRF 5

Dataset	F1-macro	Kappa	MCC
abalone	0.1013	0.0437	0.0451
abalone19	0.4424	-0.0140	0.0000
accelerometer	0.4849	0.0000	0.0000
ads	0.9092	0.8149	0.8128
advanced-iot	0.9883	1.0000	0.9922
AID.1431	0.5038	0.0039	0.0040
AID.1431_KlekotaRothFingerprinter	0.4829	-0.0264	0.0000
AID.1431_MACCSFingerprinter	0.5224	0.0495	0.0508
AID.1878	0.6362	0.2531	0.2629
AID.602330	0.5040	0.0091	0.0105
AID.652128	0.4489	0.1086	0.1402
AID1284red	0.6022	0.1664	0.2007
AID1608Morered	0.5677	0.1063	0.1322
AID1608red	0.4292	-0.0970	0.0000
AID362red	0.5783	0.0488	0.1010
AID456red	0.5605	0.0167	0.0481
AID688red	0.4850	-0.0058	0.0000
AID721morered	0.3570	-0.2858	0.0000
AID721red	0.4006	-0.1730	0.0000
aids	0.8476	0.6895	0.6890
air_pollution	0.1573	0.0130	0.0134
alcohol	0.6370	0.6122	0.6160
all-aml	0.9987	0.9996	0.9938
anneal	0.8111	0.6952	0.7272
antivirus	0.9896	1.0000	0.9954
anuran-f-b	0.7133	0.2264	0.3559
anxiety	0.1010	-0.0138	0.0000
apple-quality	0.8769	0.7561	0.7606
arcene	0.8026	0.5952	0.6099
arrhythmia	0.7029	0.6629	0.6780
auction	0.9546	0.9217	0.9147
audiology	0.6681	0.6297	0.6545
audit-risk	1.0000	0.9975	0.9991
autism-adolescent	0.9931	1.0000	1.0000
autism-adult	0.9895	0.9984	0.9998
autism-child	0.9641	0.9267	0.9295
autos	0.9476	0.9299	0.9369
avila	0.7759	0.7522	0.7654
balance	0.6311	0.6080	0.6190
bankruptcy	0.9897	0.9987	0.9910
bio	0.7640	0.4302	0.5032
biodeg	0.8866	0.7557	0.7617
biomed	0.9994	0.9967	1.0000
bitcoin10%	0.1596	0.0146	0.0803
body-perf	0.7322	0.6454	0.6493
brain-tumor	0.5134	0.0250	0.0247
breast-cancer	0.7011	0.3896	0.4090
breast-cancer-ma	0.5347	0.0672	0.0691
breast-tissue	0.7179	0.6723	0.6865
bridges	0.6053	0.5907	0.6100
bub12at310k-hg16-17	0.7034	0.3687	0.4021
cad	0.9937	0.9973	0.9923
cancer	0.9803	0.9695	0.9609
cancer-uae	0.3116	-0.0403	0.0000
car-insurance	0.8190	0.6249	0.6252
Continued on next page			

Dataset	F1-macro	Kappa	MCC
cardiotocography-nsp	0.8095	0.7143	0.7268
cardiovascular	0.7202	0.4684	0.4698
cargo2k	0.9971	1.0000	1.0000
cars	0.7986	0.6985	0.7208
cdc_diabetes	0.4521	0.2511	0.2965
census	0.7197	0.3618	0.4298
cervical-B	0.7875	0.5454	0.5794
cervical-H	0.7217	0.2769	0.3984
cervical-S	0.7613	0.5105	0.5338
children-anemia	0.9028	0.8977	0.9084
chrom211%	0.4886	-0.0015	0.0000
churn	0.7423	0.4893	0.4957
cjs	0.9748	0.9721	0.9836
ckd	0.9943	0.9997	0.9965
clave	0.7053	0.6800	0.6806
cll_sub_111	0.6322	0.3011	0.3060
cmc	0.5147	0.2809	0.2843
cnae-9	0.9120	0.9043	0.9074
codon_usage	0.7822	0.8459	0.8438
coil20	0.9967	0.9950	0.9947
college	0.8747	0.7522	0.7556
collins	0.8359	0.7772	0.7837
colon-tumor	0.7489	0.3976	0.4960
colposcopies-1	0.6915	0.3845	0.3876
colposcopies-2	0.5740	0.1479	0.1537
colposcopies-4	0.6227	0.2500	0.2537
colposcopies-5	0.7626	0.5103	0.5367
colposcopies-c	0.7177	0.4329	0.4329
column-2c	0.8837	0.7827	0.7847
column-3c	0.7340	0.6814	0.6789
coupon	0.7561	0.5118	0.5168
covtype	0.7747	0.7675	0.7726
covtypeCD	0.9395	0.8796	0.8886
crabs	0.9134	0.8643	0.8777
crowdsourced	0.8077	0.8145	0.8159
cryotherapy	0.7375	0.3714	0.4746
cultivars	0.6354	0.6766	0.6846
cybersecurity	0.1682	0.0028	0.0027
cyclopentane	0.7018	0.3915	0.3925
cylinder-bands	0.7165	0.4172	0.4378
datatrieve	0.6741	0.1760	0.3117
dbworld	0.9914	1.0000	0.9944
default	0.7070	0.3812	0.4084
dementia	0.9967	0.9960	0.9965
depressed	0.5504	0.1079	0.1078
dermatology	0.9400	0.9318	0.9252
desharnais	0.4416	0.1295	0.1625
df_final	0.5759	0.3481	0.3495
DIA	0.7885	0.5717	0.5772
diagnosis	0.9156	0.8321	0.8460
diamonds	0.9881	0.9941	0.9929
diamonds_all	0.7830	0.6980	0.7022
dishonest	0.9900	0.9971	0.9908
dlbcl-nih	0.6029	0.2143	0.2145
dlbcl-stanford	1.0000	0.9873	0.9938
drebin	0.9729	0.9394	0.9405
dropout	0.6936	0.5959	0.6001
ecoli	0.7429	0.8341	0.8463
Continued on next page			

Dataset	F1-macro	Kappa	MCC
ecoliCP-IM	0.9958	0.9938	0.9937
ecoliM	0.9238	0.8301	0.8278
ecoliMU	0.6336	0.1949	0.2506
ecoliOM	0.6509	0.2744	0.2948
ecommerce	0.2362	-0.0114	0.0000
euthyroid	0.8851	0.7656	0.7728
fakenews	0.5123	0.0194	0.0195
fbis-wc	0.8443	0.8497	0.8441
finance	0.7168	0.4411	0.4398
financial-risk	0.6611	0.7343	0.7345
flags	0.4951	0.4758	0.5106
forest	0.9004	0.8903	0.9003
gas	0.9915	0.9921	0.9872
gastrointestinal	0.8291	0.6953	0.7099
gender	0.4536	0.1731	0.1770
german	0.6436	0.2966	0.2951
gestures	0.9189	0.8992	0.8978
gina	0.9670	0.9174	0.9291
gisette	0.9701	0.9399	0.9362
glass	0.8517	0.6392	0.6853
glass-g2	0.9942	0.9980	0.9954
glassBWFP	0.9505	0.8919	0.8996
glassBWNFP	0.8387	0.6878	0.6945
glassContainers	0.8291	0.6209	0.6657
glassNW	0.9932	0.9959	1.0000
glassTableware	0.7201	0.2781	0.3984
GlaucomaM	0.7941	0.5815	0.5979
gli_85	0.9974	0.9939	1.0000
glioma	0.8258	0.7069	0.7492
glioma-grade	0.8245	0.6567	0.6565
green	0.4493	-0.0864	0.0000
gsalc	0.9957	0.9952	0.9938
haberman	0.7883	0.5612	0.5850
hapt	0.8695	0.9254	0.9192
har	0.9843	1.0000	0.9955
health-activity	0.2542	0.0594	0.0691
heart	0.7665	0.5237	0.5310
heart-c	0.8586	0.7315	0.7275
heart-failure	0.9702	0.9555	0.9533
heart-quantum	0.8829	0.7608	0.7868
hepatitis	0.8487	0.6635	0.7052
higher	0.2139	0.0879	0.0920
hinselmann	0.2838	-0.3649	0.0000
hitters	0.8710	0.7459	0.7452
hiv1-proteasa	0.8351	0.6568	0.6735
hiva	0.5959	0.1545	0.1831
horse	0.7124	0.5352	0.5422
hotel-reservartions	0.8942	0.7782	0.7828
hr	0.5012	-0.0019	0.0000
htru2	0.8992	0.7956	0.8074
hypothyroid	0.6357	0.4355	0.5311
immuno-therapy	0.8795	0.7258	0.7549
ionosphere	0.9075	0.8083	0.8299
iris	0.9257	0.8916	0.8998
irish	0.9752	0.9646	0.9506
isolet	0.9140	0.9024	0.9047
jm1	0.6575	0.2997	0.3145
jvowels	0.9722	0.9639	0.9730
Continued on next page			

Dataset	F1-macro	Kappa	MCC
kc1-class-level-numericdefect	0.2884	0.1570	0.1755
kc1-class-level-top5percentDF	0.3961	-0.1192	0.0000
kc2	0.6939	0.3891	0.3948
kdc-4007	0.7840	0.7409	0.7497
kidney	0.1856	-0.0084	0.0000
kidney-disease	0.9928	0.9965	0.9936
la2s-wc	0.8570	0.8398	0.8450
labor	0.8506	0.6663	0.6985
leaf	0.7381	0.7517	0.7591
led24	0.7741	0.7120	0.7175
lenses	0.5699	0.4979	0.6041
letter	0.9568	0.9459	0.9499
linkage1%	0.9540	0.8921	0.8883
loan	0.9814	0.9701	0.9737
lrs	0.6011	0.6640	0.6733
lung_discrete	0.8965	0.8364	0.8586
lymphography	0.6248	0.3516	0.3923
lymphoma2	0.9962	0.9985	0.9950
machine-failure	0.9228	0.8418	0.8445
magic04	0.8574	0.7226	0.7171
malware	0.9965	0.9950	0.9951
mammography	0.7569	0.5215	0.5187
marketing	0.7541	0.4852	0.5068
mba	0.4912	0.3053	0.3612
mental-disorders	0.9244	0.8890	0.8926
messidor	0.6499	0.3131	0.3142
meter-A	0.7926	0.5270	0.5987
meter-B	0.9991	0.9967	0.9992
meter-C	0.9997	0.9949	0.9978
meter-D	0.9124	0.9177	0.9246
mfeat-fac	0.9671	0.9589	0.9603
mfeat-fou	0.8076	0.7901	0.7858
mfeat-kar	0.9770	0.9740	0.9646
mfeat-mor	0.7106	0.6746	0.6700
mfeat-pix	0.9828	0.9778	0.9763
mfeat-zer	0.7675	0.7473	0.7487
mice-prot	0.9900	0.9956	0.9989
milk	0.9993	0.9961	0.9945
mines	0.4550	0.3708	0.3808
mobile	0.9609	0.9669	0.9635
monks-1	0.9943	0.9992	0.9938
monks-3	0.9715	0.9276	0.9226
mushroom	1.0000	0.9996	0.9949
music	0.5482	0.3925	0.3992
MUT_ci300400a_cdk_ECFP2	0.7900	0.5931	0.5954
MUT_ci300400a_cdk_ECFP4	0.8131	0.6183	0.6160
MUT_ci300400a_cdk_ECFP6	0.8038	0.6115	0.6135
MUT_ci300400a_cdk_ESTATE	0.7734	0.5420	0.5426
MUT_ci300400a_cdk_EXTENDED	0.8428	0.6943	0.6918
MUT_ci300400a_cdk_FCFP2	0.7971	0.5973	0.6017
MUT_ci300400a_cdk_FCFP4	0.8080	0.6164	0.6170
MUT_ci300400a_cdk_FCFP6	0.8041	0.6024	0.6098
MUT_ci300400a_cdk_MACCS	0.8385	0.6750	0.6747
MUT_ci300400a_cdk_PUBCHEM	0.8458	0.7043	0.6946
MUT_ci300400a_cdk_STANDARD	0.8192	0.6426	0.6480
MUT_ci300400a_rdkit_descriptors	0.8353	0.6649	0.6598
myocardial	0.3761	0.2584	0.3022
naticusdroid	0.9656	0.9374	0.9424
Continued on next page			

Dataset	F1-macro	Kappa	MCC
nci9	0.9940	0.9971	0.9949
ncRNA10%	0.4490	0.3966	0.4698
neo	0.6811	0.2190	0.3134
new-thyroid	0.9947	1.0000	0.9975
new-thyroidT	0.9998	0.9898	1.0000
NHANES_age_prediction	1.0000	0.9956	0.9925
nursery	0.9282	0.9522	0.9489
obesity	0.9385	0.9303	0.9311
obs	0.9541	0.9501	0.9460
oh0-wc	0.9595	0.9502	0.9530
oh10-wc	0.7888	0.7826	0.7854
oh15-wc	0.8812	0.8633	0.8625
oh5-wc	0.8684	0.8361	0.8363
olive	0.9510	0.9279	0.9299
optdigits	0.9724	0.9628	0.9603
orlraws10P	1.0000	0.9971	0.9998
ozone1hr	0.7085	0.3208	0.3908
p53-mutants10%	0.4719	-0.0062	0.0000
parkinson	0.9852	0.9793	0.9753
particle	0.9152	0.8286	0.8323
pc1	0.7086	0.3445	0.3991
pcmac	0.5264	0.0521	0.0541
pediatric-leukemia	0.8264	0.7853	0.7818
pendigits	0.9943	0.9909	0.9900
period-10f	0.5797	0.1421	0.1567
persistency	0.8271	0.6614	0.6613
pet-adoption	0.9456	0.8658	0.8770
phishing	0.9515	0.8951	0.8877
PhiUSIL10%	0.9942	0.9907	0.9920
pima	0.8073	0.6096	0.6098
pirvision	0.8852	0.8283	0.8437
placement	0.7752	0.5535	0.5517
plrx	0.4427	-0.1075	0.0000
polya	0.7735	0.5416	0.5406
post-operative	0.4203	-0.1526	0.0000
pred-tox_mutagen_ref-desc	0.7242	0.4368	0.4408
prestige	0.8822	0.8245	0.8444
primary-tumor	0.2864	0.2644	0.2686
profb	0.6861	0.3645	0.3708
promoters	0.9087	0.7963	0.8122
pulsar	0.9308	0.8501	0.8457
raisin	0.9110	0.8213	0.8132
rejafada	0.8432	0.6468	0.6934
relathe	0.9939	0.9951	0.9947
rice	0.9815	0.9705	0.9745
rocket	0.7093	0.4171	0.4241
satimage	0.8949	0.8879	0.8846
scadi	0.4966	0.4434	0.4872
schiller	0.5941	0.1823	0.1881
sclerosis	0.9876	0.9863	1.0000
secom	0.5813	0.1738	0.1765
seeds	0.9525	0.9276	0.9368
segment	0.9656	0.9502	0.9476
segmentation	0.8528	0.6995	0.7037
segmentO	0.9663	0.9212	0.9214
seismic	0.6514	0.2187	0.2850
sens-2-gram	0.6597	0.3173	0.3206
sens-3-gram	0.6631	0.3248	0.3277
Continued on next page			

Dataset	F1-macro	Kappa	MCC
sens-4-gram	0.5719	0.1360	0.1389
shoppers	0.7984	0.5845	0.6058
sick	0.8642	0.7047	0.7133
sirtuin6	1.0000	1.0000	1.0000
smarket	0.9876	0.9753	0.9802
smk_can_187	0.6821	0.3587	0.3655
smoking	0.7579	0.5479	0.5317
soil_pollution	0.2555	0.0660	0.0664
solar-flare	0.6611	0.6736	0.6781
sonar	0.6490	0.2981	0.3154
soybean	0.9766	0.9658	0.9669
spam-detection	0.8075	0.5746	0.6113
spambase	0.9211	0.8561	0.8571
spect	0.6595	0.2616	0.3182
spectf	0.8217	0.6379	0.6350
spectrometer	0.3900	0.3769	0.3831
squash-unstored	1.0000	0.9969	0.9984
startup	0.9815	0.9770	0.9750
steel_industry	0.8927	0.8335	0.8493
stellar	0.9750	0.9481	0.9645
stock	0.8537	0.7035	0.7143
stockb	0.9858	0.9816	0.9851
streaming	0.9960	0.9956	0.9876
stress	0.9536	0.9398	0.9356
student-depression	0.8288	0.6522	0.6563
student-habits	0.2496	0.0302	0.0307
student-lifestyle	0.4045	0.3034	0.3174
student-weekend	0.2592	0.0676	0.0689
student-workday	0.2348	0.1818	0.1851
studentap	0.5908	0.4065	0.4126
tae	0.6674	0.4978	0.4998
telco-churn	0.8710	0.7535	0.7527
texture	0.9816	0.9843	0.9749
theorem	0.9762	0.9628	0.9631
thoracic	0.6160	0.2029	0.2265
Thyroid_Diff	0.9571	0.9273	0.9335
tis	0.8549	0.7136	0.7242
titanic	0.7306	0.4527	0.4548
tourist	0.5198	0.6398	0.6857
trains	0.9963	0.9978	0.9943
transfusion	0.4676	-0.0520	0.0000
tuandromd	0.9715	0.9354	0.9452
turkish	0.7646	0.6986	0.7001
tvnews	0.9254	0.8493	0.8549
ur3_cobotops_grip	0.6529	0.2112	0.2784
ur3_cobotops_stop	0.7473	0.3880	0.4648
urban	0.8347	0.8024	0.8133
vehicle	0.7144	0.6741	0.6732
vote	0.8816	0.7689	0.7695
vowel	0.6923	0.6193	0.6308
wap-wc	0.7179	0.8043	0.8187
warpar10p	0.7022	0.7365	0.7491
warppie10p	0.9972	0.9935	1.0000
waveform	0.8444	0.7745	0.7754
weather-related	0.9691	0.9605	0.9608
white-clover	0.6625	0.1799	0.3160
wifi-loc	0.9886	0.9931	0.9832
wilt	0.7983	0.5399	0.5998
Continued on next page			

Dataset	F1-macro	Kappa	MCC
wine	0.9993	0.9913	1.0000
winequality-red	0.3860	0.2841	0.2927
winequality-white	0.3826	0.3022	0.3190
wisc.bc	0.9854	0.9631	0.9613
yale	0.7581	0.7919	0.8039
yeast	0.4669	0.4565	0.4534
yeastCYT-POX	0.7203	0.2833	0.4045
yeastEXC	0.7203	0.2609	0.3854
yeastME1	0.7234	0.2607	0.3907
yeastME2	0.6785	0.2690	0.3292
zip	0.9380	0.9412	0.9376

Table 56: Detailed results for Crazy 5

Dataset	F1-macro	Kappa	MCC
abalone	0.1039	0.0685	0.0698
abalone19	0.4982	0.0000	0.0000
accelerometer	0.7222	0.3097	0.4000
ads	0.9482	0.8909	0.8963
adult	0.7856	0.5412	0.5698
advanced-iot	1.0000	1.0000	1.0000
AID_1431	0.4772	0.0000	0.0000
AID_1431_KlekotaRothFingerprinter	0.4772	0.0000	0.0000
AID_1431_MACCSFingerprinter	0.4772	0.0000	0.0000
AID_1878	0.4474	-0.0184	0.0000
AID_602330	0.4866	-0.0169	0.0000
AID_652128	0.3118	0.0000	0.0000
AID1284red	0.6850	0.3662	0.3692
AID1608Moredred	0.4772	-0.0311	0.0000
AID1608red	0.4798	-0.0300	0.0000
AID362red	0.4947	-0.0094	0.0000
AID373AID439red	0.4991	-0.0003	0.0000
AID373red	0.5492	0.0652	0.0815
AID456red	0.4990	-0.0015	0.0000
AID604	0.6780	0.1162	0.2373
AID604AID644_AllRed	0.4992	-0.0014	0.0000
AID687AID721red	0.4990	-0.0010	0.0000
AID687red	0.4981	-0.0036	0.0000
AID688red	0.4972	-0.0031	0.0000
AID721moredred	0.4375	0.0000	0.0000
AID721red	0.4375	0.0000	0.0000
AID746AID1284red	0.4986	-0.0017	0.0000
AID746red	0.5640	0.1279	0.1280
aids	0.8494	0.6986	0.6988
air_pollution	0.0826	0.0000	0.0000
alcohol	0.6804	0.6473	0.6789
all-aml	1.0000	1.0000	1.0000
anneal	0.9872	0.9766	0.9769
antivirus	1.0000	1.0000	1.0000
anuran-f-b	1.0000	1.0000	1.0000
anxiety	0.1190	-0.0045	0.0000
apple-quality	0.8049	0.6050	0.6098
aps-failure	0.8078	0.5445	0.6012
arabidopsis1%	0.4980	0.0000	0.0000
arcene	0.7292	0.4231	0.4583
arrhythmia	0.2775	0.1456	0.2860
auction	0.9777	0.9544	0.9554
audiology	0.6675	0.7816	0.7921
audit-risk	1.0000	1.0000	1.0000
autism-adolescent	1.0000	1.0000	1.0000
autism-adult	1.0000	1.0000	1.0000
autism-child	1.0000	1.0000	1.0000
autos	0.9064	0.8667	0.8758
avila	0.9977	0.9994	0.9994
balance	0.7460	0.6690	0.6744
bank	0.7705	0.5410	0.5410
bankruptcy	1.0000	1.0000	1.0000
bio	0.8535	0.6612	0.7001
biodeg	0.8576	0.7146	0.7152
biomed	1.0000	1.0000	1.0000

Continued on next page

Dataset	F1-macro	Kappa	MCC
bitcoin10%	0.2994	0.4402	0.4775
body-perf	0.7226	0.6229	0.6312
brain-tumor	0.4993	-0.0013	0.0000
breast-cancer	0.6242	0.2432	0.2477
breast-cancer-ma	0.6857	0.2143	0.3464
breast-tissue	0.7179	0.6733	0.6869
bridges	0.6061	0.7143	0.7470
bub12at310k-hg16-17	0.7010	0.3941	0.4001
cad	1.0000	1.0000	1.0000
cancer	1.0000	1.0000	1.0000
cancer-uae	0.3071	-0.0248	0.0000
car-insurance	0.8116	0.6206	0.6232
cardiotocography-nsp	0.8589	0.7801	0.7849
cardiovascular	0.7302	0.4571	0.4604
cargo2k	1.0000	1.0000	1.0000
cars	0.8308	0.7727	0.7738
ccds10%	0.6153	0.0628	0.1339
cdc_diabetes	0.4450	0.3208	0.3292
census	0.7527	0.4832	0.4871
cervical-B	0.7962	0.5764	0.5897
cervical-H	0.8689	0.7378	0.7378
cervical-S	0.8481	0.6446	0.6896
children-anemia	0.8469	0.8917	0.8931
chrom19	0.9394	0.8749	0.8705
chrom211%	0.4998	0.0000	0.0000
churn	0.7525	0.5037	0.5049
cjs	0.9959	0.9956	0.9957
ckd	1.0000	1.0000	1.0000
clave	0.6521	0.6219	0.6236
cll_sub_111	0.8028	0.6000	0.6068
cmc	0.5225	0.2767	0.2796
cnae-9	0.9729	0.9688	0.9688
codon_usage	0.6629	0.8056	0.8111
coil20	1.0000	1.0000	1.0000
college	0.9172	0.8338	0.8343
collins	0.9249	0.9780	0.9784
colon-tumor	0.8537	0.6667	0.7071
colposcopies-1	0.7424	0.3596	0.4682
colposcopies-2	0.7264	0.3176	0.4345
colposcopies-4	0.7810	0.4649	0.5504
colposcopies-5	0.4423	-0.0610	0.0000
colposcopies-c	0.8054	0.5323	0.6022
column-2c	0.8634	0.7195	0.7266
column-3c	0.7197	0.6401	0.6477
connect-4	0.6756	0.5890	0.5894
coupon	0.7350	0.4698	0.4699
covtype	0.9212	0.9147	0.9281
covtypeCD	0.9777	0.9554	0.9555
covtypeT	0.9082	0.8091	0.8159
crabs	0.9141	0.8667	0.8785
creditcard_trans	0.8463	0.6482	0.6854
crowdsourced	0.7918	0.8435	0.8469
cryotherapy	0.7404	0.3721	0.4781
cultivars	0.6656	0.7097	0.7155
cybersecurity	0.1634	-0.0121	0.0000
cyclopentane	0.6181	0.2241	0.2358
cylinder-bands	0.8183	0.6296	0.6367
datatrieve	0.4800	0.0000	0.0000
Continued on next page			

Dataset	F1-macro	Kappa	MCC
dating	0.1006	0.0015	0.0016
dbworld	1.0000	1.0000	1.0000
default	0.7140	0.4226	0.4273
dementia	1.0000	1.0000	1.0000
deposit	0.7522	0.5043	0.5044
depressed	0.4542	0.0000	0.0000
dermatology	0.9429	0.9325	0.9325
desharnais	0.5032	0.3143	0.3235
df_final	0.6247	0.4419	0.4524
DIA	0.7692	0.4286	0.5222
diabetes-100k	0.8540	0.6605	0.7022
diagnosis	1.0000	1.0000	1.0000
diamonds	1.0000	1.0000	1.0000
diamonds_all	0.6945	0.5865	0.5940
dishonest	1.0000	1.0000	1.0000
dlbcl-nih	0.5294	0.0323	0.0510
dlbcl-stanford	0.8333	0.6154	0.6667
dna0.1%	0.4993	0.0000	0.0000
dota2	0.5745	0.1485	0.1491
drebin	0.9840	0.9680	0.9680
dropout	0.6810	0.5974	0.6067
ecoli	0.6649	0.7521	0.7588
ecoliCP-IM	1.0000	1.0000	1.0000
ecoliM	0.9175	0.8350	0.8350
ecoliMU	0.6810	0.3125	0.3516
ecoliOM	0.8514	0.6526	0.6960
ecommerce	0.2532	-0.0028	0.0000
euthyroid	0.9207	0.8413	0.8415
fakenews	0.4572	-0.0820	0.0000
fbis-wc	0.7145	0.7363	0.7450
finance	0.7214	0.4413	0.4427
financial-risk	0.4792	0.5802	0.6155
flags	0.4994	0.7419	0.7550
forest	0.8552	0.8408	0.8426
gas	0.9961	0.9956	0.9956
gastrointestinal	0.8485	0.7838	0.8094
gender	0.4880	0.1551	0.1661
german	0.6488	0.2840	0.2964
gestures	0.8607	0.8026	0.8113
gina	0.8915	0.7812	0.7831
gisette	0.9332	0.8657	0.8663
glass	0.7176	0.6656	0.6722
glass-g2	0.8873	0.7500	0.7746
glassBWFP	0.9507	0.8966	0.9014
glassBWNFP	0.9472	0.8889	0.8944
glassContainers	1.0000	1.0000	1.0000
glassNW	0.9340	0.8591	0.8677
glassTableware	0.4884	0.0000	0.0000
GlaucomaM	0.7978	0.5824	0.5955
gli_85	1.0000	1.0000	1.0000
glioma	0.8333	0.7059	0.7500
glioma-grade	0.8845	0.7610	0.7689
green	0.6098	0.2105	0.2182
gsalc	1.0000	1.0000	1.0000
haberman	0.6323	0.2593	0.2638
hapt	0.8132	0.9122	0.9127
har	0.9944	0.9936	0.9936
harth10%	0.5557	0.7997	0.8018
Continued on next page			

Dataset	F1-macro	Kappa	MCC
health-activity	0.2175	0.0000	0.0000
heart	0.8064	0.6110	0.6128
heart-c	0.9330	0.8661	0.8661
heart-failure	0.9837	0.9672	0.9675
heart-quantum	0.9249	0.8387	0.8498
hepatitis	0.8544	0.6667	0.7071
higher	0.2420	0.1463	0.1686
hinselmann	0.4444	0.0000	0.0000
hitters	0.9373	0.8745	0.8745
hiv1-proteasa	0.7280	0.3780	0.4395
hiva	0.5545	0.0838	0.0973
horse	0.5994	0.3286	0.3540
hotel-reservartions	0.8905	0.7793	0.7810
hr	0.4633	0.0000	0.0000
ht-sensor	0.9996	0.9994	0.9994
htru2	0.9314	0.8578	0.8626
hypothyroid	0.6800	0.8427	0.8491
immuno-therapy	0.6786	0.3571	0.3571
ionosphere	0.9038	0.8059	0.8076
iris	1.0000	1.0000	1.0000
irish	1.0000	1.0000	1.0000
isolet	0.8634	0.8545	0.8550
jm1	0.6607	0.3185	0.3208
javowels	0.9451	0.9431	0.9432
kc1-class-level-numericdefect	0.3733	0.3500	0.4677
kc1-class-level-top5percentDF	0.4643	-0.0714	0.0000
kc2	0.7118	0.4235	0.4235
kdc-4007	0.4759	0.2849	0.3364
kddcup991%	0.8156	0.9979	0.9979
kidney	0.1778	0.0000	0.0000
kidney-disease	1.0000	1.0000	1.0000
la2s-wc	0.7964	0.7406	0.7592
labor	1.0000	1.0000	1.0000
leaf	0.6699	0.7205	0.7286
led24	0.6933	0.6034	0.6103
lenses	0.5714	0.5000	0.6124
letter	0.9563	0.9547	0.9548
linkage1%	0.9634	0.9266	0.9268
loan	0.9615	0.9214	0.9230
lrs	0.6292	0.7928	0.8005
lung_discrete	0.9164	0.8400	0.8573
lymphography	0.4934	0.4510	0.4560
lymphoma2	0.4194	0.5000	0.5511
machine-failure	0.9369	0.8705	0.8737
magic04	0.8505	0.6919	0.7007
malware	1.0000	1.0000	1.0000
mammography	0.8745	0.7490	0.7490
marketing	0.7681	0.5118	0.5324
mba	0.4455	0.3226	0.3261
mental-disorders	0.9270	0.8889	0.8972
messidor	0.6578	0.3020	0.3155
meter-A	0.8000	0.5294	0.6000
meter-B	1.0000	1.0000	1.0000
meter-C	1.0000	1.0000	1.0000
meter-D	0.8784	0.8448	0.8561
mfeat-fac	0.9608	0.9556	0.9558
mfeat-fou	0.7899	0.7667	0.7688
mfeat-kar	0.9523	0.9444	0.9449
Continued on next page			

Dataset	F1-macro	Kappa	MCC
mfeat-mor	0.6948	0.6611	0.6615
mfeat-pix	0.9807	0.9778	0.9779
mfeat-zer	0.7586	0.7389	0.7395
mice-prot	1.0000	1.0000	1.0000
milk	0.9696	0.9565	0.9566
mines	0.5148	0.3751	0.3848
mobile	0.9508	0.9466	0.9468
monks-1	1.0000	1.0000	1.0000
monks-3	0.9824	0.9642	0.9648
mushroom	1.0000	1.0000	1.0000
music	0.5290	0.3812	0.3844
MUT_ci300400a_cdk_ECFP2	0.8003	0.5950	0.6005
MUT_ci300400a_cdk_ECFP4	0.8175	0.6248	0.6351
MUT_ci300400a_cdk_ECFP6	0.7925	0.5827	0.5849
MUT_ci300400a_cdk_ESTATE	0.7614	0.5200	0.5228
MUT_ci300400a_cdk_EXTENDED	0.8442	0.6862	0.6884
MUT_ci300400a_cdk_FCFP2	0.8333	0.6632	0.6665
MUT_ci300400a_cdk_FCFP4	0.7801	0.5546	0.5603
MUT_ci300400a_cdk_FCFP6	0.7909	0.5706	0.5818
MUT_ci300400a_cdk_MACCS	0.8354	0.6700	0.6709
MUT_ci300400a_cdk_PUBCHEM	0.8572	0.7138	0.7144
MUT_ci300400a_cdk_STANDARD	0.8331	0.6654	0.6663
MUT_ci300400a_rdkit_descriptors	0.8340	0.6644	0.6680
myocardial	0.2414	0.2917	0.4167
naticusdroid	0.9688	0.9374	0.9375
nci9	0.7895	0.8000	0.8281
ncRNA10%	0.6908	0.8208	0.8269
neo	0.7566	0.4173	0.4996
new-thyroid	1.0000	1.0000	1.0000
new-thyroidT	1.0000	1.0000	1.0000
newspop	0.6657	0.3242	0.3313
NHANES_age_prediction	1.0000	1.0000	1.0000
nomao	0.9552	0.9096	0.9103
nursery	0.9183	0.9366	0.9368
obesity	0.9386	0.9280	0.9289
obs	1.0000	1.0000	1.0000
oh0-wc	0.8811	0.8635	0.8657
oh10-wc	0.7083	0.7021	0.7202
oh15-wc	0.8258	0.7865	0.7969
oh5-wc	0.8294	0.7873	0.7932
olive	0.9174	0.9123	0.9157
optdigits	0.9589	0.9525	0.9526
orlraws10P	0.8743	0.8889	0.8989
ozone1hr	0.4909	0.0000	0.0000
p53-mutants10%	0.4992	0.0000	0.0000
parkinson	0.9915	0.9828	0.9830
particle	0.9050	0.8096	0.8100
pc1	0.6986	0.3909	0.3956
pcmac	0.3618	-0.0307	0.0000
pediatric-leukemia	0.5813	0.6685	0.6756
pendigits	0.9764	0.9737	0.9737
period-10f	0.5950	0.1818	0.1890
persistence	0.8047	0.6076	0.6093
personalities	0.9774	0.9758	0.9758
pet-adoption	0.8804	0.7480	0.7604
phishing	0.9657	0.9312	0.9314
PhiUSIL10%	0.9996	0.9991	0.9991
phy	0.7090	0.4144	0.4180
Continued on next page			

Dataset	F1-macro	Kappa	MCC
pima	0.7174	0.4225	0.4342
pirvision	0.9870	0.9813	0.9813
placement	0.7795	0.5587	0.5589
plrx	0.4000	-0.1020	0.0000
polya	0.7489	0.4916	0.4976
popularity	0.5478	0.2571	0.2853
post-operative	0.5950	0.1818	0.1890
postures	0.9871	0.9841	0.9842
pred-tox_mutagen_ref-desc	0.6913	0.3824	0.3825
prestige	0.8889	0.8302	0.8462
primary-tumor	0.3636	0.3496	0.3556
processed	1.0000	1.0000	1.0000
profb	0.6559	0.3002	0.3107
promoters	0.9083	0.8000	0.8165
puc-rio	0.9870	0.9902	0.9902
pufs-1281%	0.5025	0.0050	0.0050
pufs-6410%	0.4988	-0.0022	0.0000
pulsar	0.9407	0.8785	0.8814
raisin	0.9115	0.8222	0.8230
rejabatada	1.0000	1.0000	1.0000
relathe	0.9929	0.9858	0.9859
rice	0.9867	0.9733	0.9734
rocket	0.6946	0.3760	0.3892
RT_IOT2022	0.9711	0.9910	0.9910
satimage	0.8781	0.8671	0.8680
scadi	0.6984	0.6316	0.6860
schiller	0.8333	0.6087	0.6614
sclerosis	1.0000	1.0000	1.0000
secom	0.4834	0.0000	0.0000
secondary_mushroom	0.9997	0.9993	0.9993
seeds	0.9553	0.9286	0.9317
segment	0.9735	0.9646	0.9647
segmentation	0.8251	0.6493	0.6503
segmentO	1.0000	1.0000	1.0000
seismic	0.5751	0.0819	0.1169
sens-2-gram	0.6687	0.0675	0.1869
sens-3-gram	0.6196	0.0615	0.1412
sens-4-gram	0.5897	0.0557	0.1124
sensorless	0.9981	0.9979	0.9979
shoppers	0.8072	0.6140	0.6144
sick	0.8834	0.7369	0.7638
sirtuin6	1.0000	1.0000	1.0000
smarket	0.9921	0.9840	0.9841
smk_can_187	0.7389	0.4751	0.4778
smoking	0.8187	0.6179	0.6374
soil_pollution	0.1916	-0.0061	0.0000
solar-flare	0.6299	0.7041	0.7106
sonar	0.7185	0.4000	0.4364
soybean	0.9894	0.9677	0.9687
spam-detection	0.8671	0.7340	0.7341
spambase	0.9454	0.8907	0.8907
spect	0.6250	0.2500	0.2500
spectf	0.8956	0.7692	0.7906
spectrometer	0.4957	0.5500	0.5566
squash-unstored	1.0000	1.0000	1.0000
startup	1.0000	1.0000	1.0000
steel_industry	0.8479	0.8032	0.8033
stellar	0.9657	0.9465	0.9467
Continued on next page			

Dataset	F1-macro	Kappa	MCC
stock	0.7804	0.5607	0.5608
stockb	1.0000	1.0000	1.0000
streaming	0.9313	0.8625	0.8625
stress	1.0000	1.0000	1.0000
student-depression	0.8090	0.6164	0.6181
student-habits	0.1607	-0.0291	0.0000
student-lifestyle	0.4581	0.4167	0.4187
student-weekend	0.2570	0.1294	0.1502
student-workday	0.1651	0.0000	0.0000
studentap	0.4301	0.1727	0.1743
swarm_aligned	0.9981	0.9961	0.9961
swarm_flocking	0.9988	0.9975	0.9975
swarm_grouped	0.9996	0.9991	0.9991
tae	0.6082	0.4000	0.4027
telco-churn	0.8689	0.7375	0.7379
texture	0.9826	0.9799	0.9800
theorem	0.9511	0.9021	0.9023
thoracic	0.4598	0.0000	0.0000
Thyroid_Diff	0.9365	0.8648	0.8728
tis	0.8429	0.6652	0.6846
titanic	0.7714	0.5247	0.5418
tourist	0.5250	0.6364	0.6848
trains	0.3333	0.0000	0.0000
transfusion	0.5517	0.1033	0.1034
tuandromd	0.9825	0.9643	0.9649
turkish	0.8018	0.7333	0.7408
tvnews	0.9219	0.8437	0.8438
ur3_cobotops_grip	0.7331	0.2790	0.4026
ur3_cobotops_stop	0.6856	0.3106	0.3517
urban	0.8590	0.8251	0.8277
ustilago10%	0.4973	0.0000	0.0000
vehicle	0.7041	0.6760	0.6790
vote	0.9307	0.8605	0.8615
vowel	0.7889	0.7333	0.7430
wap-wc	0.4108	0.5370	0.5759
warpar10p	0.7059	0.7400	0.7553
warppie10p	1.0000	1.0000	1.0000
waveform	0.8409	0.7571	0.7612
weather-related	0.9765	0.9674	0.9675
weight-lift	0.9966	0.9958	0.9958
white-clover	0.5000	0.0000	0.0000
wifi-loc	0.9902	0.9867	0.9868
wilt	0.9160	0.8313	0.8320
wine	1.0000	1.0000	1.0000
winequality-red	0.3379	0.4836	0.4880
winequality-white	0.4502	0.4928	0.5006
winnipeg10%	0.9908	0.9852	0.9853
wisc.bc	0.9817	0.9627	0.9633
yale	0.7318	0.7322	0.7416
yeast	0.4994	0.4833	0.4923
yeastCYT-POX	0.9047	0.7897	0.8078
yeastEXC	0.7431	0.4861	0.4861
yeastME1	0.6958	0.3799	0.3883
yeastME2	0.7218	0.2410	0.3702
zip	0.9011	0.8962	0.8965

Table 57: Detailed results for Crazier 5

Dataset	F1-macro	Kappa	MCC
abalone	0.1324	0.0827	0.0844
abalone19	0.4982	0.0000	0.0000
accelerometer	0.7137	0.2854	0.3783
ads	0.9482	0.8909	0.8963
adult	0.7868	0.5464	0.5724
advanced-iot	1.0000	1.0000	1.0000
AID_1431	0.4772	0.0000	0.0000
AID_1431_KlekotaRothFingerprinter	0.4772	0.0000	0.0000
AID_1431_MACCSFingerprinter	0.4772	0.0000	0.0000
AID_1878	0.4474	-0.0184	0.0000
AID_602330	0.4866	-0.0169	0.0000
AID_652128	0.3118	0.0000	0.0000
AID1284red	0.7322	0.4419	0.4601
AID1608Morered	0.4798	-0.0173	0.0000
AID1608red	0.4798	-0.0300	0.0000
AID362red	0.4965	0.0000	0.0000
AID373AID439red	0.4996	-0.0003	0.0000
AID373red	0.5578	0.0987	0.1078
AID456red	0.4990	-0.0015	0.0000
AID604	0.6782	0.1172	0.2384
AID604AID644_AllRed	0.4992	-0.0013	0.0000
AID687AID721red	0.4993	-0.0009	0.0000
AID687red	0.4988	-0.0023	0.0000
AID688red	0.4972	-0.0031	0.0000
AID721morered	0.4375	0.0000	0.0000
AID721red	0.4375	0.0000	0.0000
AID746AID1284red	0.4992	-0.0014	0.0000
AID746red	0.5669	0.1291	0.1318
aids	0.8528	0.7055	0.7056
air_pollution	0.0826	0.0000	0.0000
alcohol	0.6842	0.6430	0.6810
all-aml	1.0000	1.0000	1.0000
anneal	0.9872	0.9766	0.9769
antivirus	1.0000	1.0000	1.0000
anuran-f-b	1.0000	1.0000	1.0000
anxiety	0.1148	0.0041	0.0041
apple-quality	0.8169	0.6300	0.6338
aps-failure	0.8319	0.6341	0.6589
arabidopsis1%	0.4980	0.0000	0.0000
arcene	0.7292	0.4231	0.4583
arrhythmia	0.2775	0.1456	0.2860
auction	0.9777	0.9544	0.9554
audiology	0.6675	0.7816	0.7921
audit-risk	1.0000	1.0000	1.0000
autism-adolescent	1.0000	1.0000	1.0000
autism-adult	1.0000	1.0000	1.0000
autism-child	1.0000	1.0000	1.0000
autos	0.9064	0.8667	0.8758
avila	0.9977	0.9994	0.9994
balance	0.6670	0.6780	0.6784
bank	0.7626	0.5251	0.5252
bankruptcy	1.0000	1.0000	1.0000
bio	0.8586	0.6748	0.7110
biodeg	0.8675	0.7337	0.7350
biomed	1.0000	1.0000	1.0000
Continued on next page			

Dataset	F1-macro	Kappa	MCC
bitcoin10%	0.3145	0.4458	0.4925
body-perf	0.7291	0.6328	0.6390
brain-tumor	0.5067	0.0133	0.0133
breast-cancer	0.6242	0.2432	0.2477
breast-cancer-ma	0.6309	0.2414	0.2609
breast-tissue	0.7179	0.6733	0.6869
bridges	0.6061	0.6970	0.7219
bub12at310k-hg16-17	0.7024	0.3835	0.3995
cad	1.0000	1.0000	1.0000
cancer	1.0000	1.0000	1.0000
cancer-uae	0.2954	-0.0514	0.0000
car-insurance	0.8162	0.6302	0.6323
cardiotocography-nsp	0.8552	0.7765	0.7842
cardiovascular	0.7306	0.4577	0.4612
cargo2k	1.0000	1.0000	1.0000
cars	0.8096	0.7324	0.7354
ccds10%	0.6153	0.0628	0.1339
cdc_diabetes	0.4446	0.3253	0.3284
census	0.7379	0.4973	0.5018
cervical-B	0.7962	0.5764	0.5897
cervical-H	0.8689	0.7378	0.7378
cervical-S	0.8481	0.6446	0.6896
children-anemia	0.8416	0.8951	0.8967
chrom19	0.9361	0.8834	0.8871
chrom211%	0.4998	0.0000	0.0000
churn	0.7622	0.5207	0.5240
cjs	0.9959	0.9956	0.9957
ckd	1.0000	1.0000	1.0000
clave	0.6711	0.6493	0.6540
cll_sub_111	0.8028	0.6000	0.6068
cmc	0.5287	0.2899	0.2904
cnae-9	0.9729	0.9688	0.9688
codon_usage	0.6861	0.8183	0.8227
coil20	1.0000	1.0000	1.0000
college	0.9172	0.8338	0.8343
collins	0.9249	0.9780	0.9784
colon-tumor	0.8537	0.6667	0.7071
colposcopies-1	0.7797	0.4663	0.5514
colposcopies-2	0.7264	0.3176	0.4345
colposcopies-4	0.7810	0.4649	0.5504
colposcopies-5	0.4423	-0.0610	0.0000
colposcopies-c	0.8054	0.5323	0.6022
column-2c	0.9342	0.8597	0.8683
column-3c	0.7007	0.6353	0.6364
connect-4	0.6715	0.5922	0.5934
coupon	0.7312	0.4613	0.4624
covtype	0.9437	0.9319	0.9401
covtypeCD	0.9788	0.9576	0.9577
covtypeT	0.9281	0.8544	0.8562
crabs	0.9541	0.9333	0.9365
creditcard_trans	0.8576	0.7055	0.7139
crowdsourced	0.7949	0.8458	0.8488
cryotherapy	0.8163	0.5714	0.6325
cultivars	0.6431	0.6774	0.6829
cybersecurity	0.1536	-0.0183	0.0000
cyclopentane	0.6181	0.2241	0.2358
cylinder-bands	0.7761	0.5506	0.5522
datatrieve	0.4800	0.0000	0.0000
Continued on next page			

Dataset	F1-macro	Kappa	MCC
dating	0.1070	0.0081	0.0082
dbworld	1.0000	1.0000	1.0000
default	0.7124	0.4191	0.4241
dementia	1.0000	1.0000	1.0000
deposit	0.7467	0.4924	0.4932
depressed	0.4479	-0.0387	0.0000
dermatology	0.9429	0.9325	0.9325
desharnais	0.3158	0.0244	0.0265
df_final	0.6247	0.4419	0.4524
DIA	0.7692	0.4286	0.5222
diabetes-100k	0.8930	0.7612	0.7839
diagnosis	1.0000	1.0000	1.0000
diamonds	1.0000	1.0000	1.0000
diamonds_all	0.7010	0.5966	0.6034
dishonest	1.0000	1.0000	1.0000
dlbcl-nih	0.6923	0.2258	0.3568
dlbcl-stanford	0.8333	0.6154	0.6667
dna0.1%	0.4993	0.0000	0.0000
dota2	0.5696	0.1371	0.1392
drebin	0.9833	0.9666	0.9666
dropout	0.6720	0.5868	0.5990
ecoli	0.6350	0.7098	0.7207
ecoliCP-IM	1.0000	1.0000	1.0000
ecoliM	0.9175	0.8350	0.8350
ecoliMU	0.7024	0.3678	0.3975
ecoliOM	0.8514	0.6526	0.6960
ecommerce	0.2792	0.0397	0.0398
euthyroid	0.9267	0.8527	0.8533
fakenews	0.4575	-0.0851	0.0000
fbis-wc	0.7043	0.7270	0.7356
finance	0.7214	0.4369	0.4427
financial-risk	0.4755	0.5732	0.6088
flags	0.6245	0.7428	0.7531
forest	0.9159	0.8939	0.8957
gas	0.9954	0.9948	0.9948
gastrointestinal	0.8485	0.7838	0.8094
gender	0.4916	0.1640	0.1757
german	0.6445	0.2629	0.2859
gestures	0.8867	0.8459	0.8487
gina	0.9053	0.8099	0.8105
gisette	0.9329	0.8657	0.8658
glass	0.7176	0.6656	0.6722
glass-g2	0.9392	0.8710	0.8783
glassBWFP	0.9032	0.7879	0.8062
glassBWNFP	0.9472	0.8889	0.8944
glassContainers	1.0000	1.0000	1.0000
glassNW	0.9340	0.8591	0.8677
glassTableware	0.4884	0.0000	0.0000
GlaucomaM	0.7978	0.5824	0.5955
gli_85	1.0000	1.0000	1.0000
glioma	0.8333	0.7059	0.7500
glioma-grade	0.8845	0.7610	0.7689
green	0.6098	0.2105	0.2182
gsalc	1.0000	1.0000	1.0000
haberman	0.6323	0.2593	0.2638
hapt	0.8052	0.9046	0.9052
har	0.9938	0.9929	0.9929
harth10%	0.5511	0.7998	0.8018
Continued on next page			

Dataset	F1-macro	Kappa	MCC
health-activity	0.2175	0.0000	0.0000
heart	0.7666	0.5263	0.5330
heart-c	0.9009	0.8000	0.8018
heart-failure	0.9837	0.9672	0.9675
heart-quantum	0.9249	0.8387	0.8498
hepatitis	0.7266	0.4444	0.4523
higher	0.0682	0.0610	0.0709
hinselmann	0.4444	0.0000	0.0000
hitters	0.9373	0.8745	0.8745
hiv1-proteasa	0.7367	0.4002	0.4589
hiva	0.5844	0.1005	0.1361
horse	0.6559	0.4253	0.4688
hotel-reservartions	0.8927	0.7850	0.7854
hr	0.4633	0.0000	0.0000
ht-sensor	0.9997	0.9995	0.9995
htru2	0.9370	0.8699	0.8738
hypothyroid	0.7312	0.9350	0.9355
immuno-therapy	0.8333	0.6087	0.6614
ionosphere	0.9038	0.8059	0.8076
iris	1.0000	1.0000	1.0000
irish	1.0000	1.0000	1.0000
isolet	0.8756	0.8678	0.8682
jm1	0.6602	0.3101	0.3184
jvowels	0.9436	0.9408	0.9410
kc1-class-level-numericdefect	0.1636	0.0000	0.0000
kc1-class-level-top5percentDF	0.4643	-0.0714	0.0000
kc2	0.7118	0.4235	0.4235
kdc-4007	0.7055	0.5649	0.6000
kddcup991%	0.8926	0.9983	0.9983
kidney	0.1778	0.0000	0.0000
kidney-disease	1.0000	1.0000	1.0000
la2s-wc	0.8008	0.7525	0.7638
labor	1.0000	1.0000	1.0000
leaf	0.6014	0.6284	0.6372
led24	0.7773	0.7159	0.7200
lenses	0.5714	0.5000	0.6124
letter	0.9570	0.9553	0.9553
linkage1%	0.9634	0.9266	0.9268
loan	0.9638	0.9262	0.9276
lrs	0.6292	0.7928	0.8005
lung_discrete	0.9164	0.8400	0.8573
lymphography	0.5520	0.6000	0.6181
lymphoma2	0.4194	0.5000	0.5511
machine-failure	0.9251	0.8483	0.8501
magic04	0.8533	0.6995	0.7064
malware	1.0000	1.0000	1.0000
mammography	0.8745	0.7490	0.7490
marketing	0.7644	0.4806	0.5205
mba	0.4334	0.2924	0.2929
mental-disorders	0.9270	0.8889	0.8972
messidor	0.6266	0.2513	0.2532
meter-A	0.8000	0.5294	0.6000
meter-B	1.0000	1.0000	1.0000
meter-C	1.0000	1.0000	1.0000
meter-D	0.9583	0.9234	0.9274
mfeat-fac	0.9608	0.9556	0.9558
mfeat-fou	0.7923	0.7667	0.7681
mfeat-kar	0.9618	0.9556	0.9559
Continued on next page			

Dataset	F1-macro	Kappa	MCC
mfeat-mor	0.6805	0.6444	0.6449
mfeat-pix	0.9854	0.9833	0.9834
mfeat-zer	0.7682	0.7500	0.7504
mice-prot	1.0000	1.0000	1.0000
milk	0.9808	0.9710	0.9711
mines	0.5045	0.3758	0.3837
mobile	0.9578	0.9537	0.9539
monks-1	1.0000	1.0000	1.0000
monks-3	0.9824	0.9642	0.9648
mushroom	1.0000	1.0000	1.0000
music	0.5325	0.3876	0.3911
MUT_ci300400a_cdk_ECFP2	0.8033	0.6051	0.6065
MUT_ci300400a_cdk_ECFP4	0.8190	0.6303	0.6379
MUT_ci300400a_cdk_ECFP6	0.7975	0.5950	0.5951
MUT_ci300400a_cdk_ESTATE	0.7601	0.5192	0.5202
MUT_ci300400a_cdk_EXTENDED	0.8352	0.6704	0.6705
MUT_ci300400a_cdk_FCFP2	0.8325	0.6636	0.6650
MUT_ci300400a_cdk_FCFP4	0.7900	0.5775	0.5800
MUT_ci300400a_cdk_FCFP6	0.7884	0.5685	0.5767
MUT_ci300400a_cdk_MACCS	0.8305	0.6609	0.6610
MUT_ci300400a_cdk_PUBCHEM	0.8619	0.7239	0.7239
MUT_ci300400a_cdk_STANDARD	0.8300	0.6600	0.6600
MUT_ci300400a_rdkit_descriptors	0.8370	0.6726	0.6739
myocardial	0.2414	0.2917	0.4167
naticusdroid	0.9643	0.9285	0.9287
nci9	0.6667	0.6000	0.6000
ncRNA10%	0.7014	0.8286	0.8335
neo	0.7569	0.4231	0.5010
new-thyroid	1.0000	1.0000	1.0000
new-thyroidT	1.0000	1.0000	1.0000
newspop	0.6742	0.3483	0.3483
NHANES_age_prediction	1.0000	1.0000	1.0000
nomao	0.9531	0.9060	0.9062
nursery	0.9365	0.9458	0.9461
obesity	0.9386	0.9280	0.9289
obs	1.0000	1.0000	1.0000
oh0-wc	0.9106	0.8979	0.8988
oh10-wc	0.7255	0.7698	0.7768
oh15-wc	0.8400	0.7995	0.8071
oh5-wc	0.8507	0.8128	0.8153
olive	0.9174	0.9123	0.9157
optdigits	0.9611	0.9545	0.9546
orlraws10P	0.8743	0.8889	0.8989
ozone1hr	0.4909	0.0000	0.0000
p53-mutants10%	0.4992	0.0000	0.0000
parkinson	0.9915	0.9828	0.9830
particle	0.9061	0.8120	0.8122
pc1	0.7306	0.4612	0.4612
pcmac	0.3639	-0.0205	0.0000
pediatric-leukemia	0.5727	0.6659	0.6780
pendigits	0.9783	0.9757	0.9757
period-10f	0.5000	0.0000	0.0000
persistence	0.7947	0.5866	0.5893
personalities	0.9785	0.9771	0.9771
pet-adoption	0.8937	0.7701	0.7870
phishing	0.9657	0.9312	0.9314
PhiUSIL10%	0.9996	0.9991	0.9991
phy	0.7088	0.4173	0.4177
Continued on next page			

Dataset	F1-macro	Kappa	MCC
pima	0.7023	0.3899	0.4040
pirvision	0.9841	0.9774	0.9774
placement	0.7875	0.5747	0.5749
plrx	0.4000	-0.1020	0.0000
polya	0.7318	0.4419	0.4622
popularity	0.5432	0.2422	0.2771
post-operative	0.4000	0.0000	0.0000
postures	0.9879	0.9851	0.9851
pred-tox_mutagen_ref-desc	0.7059	0.4118	0.4118
prestige	0.8889	0.8302	0.8462
primary-tumor	0.3306	0.3516	0.3572
processed	1.0000	1.0000	1.0000
profb	0.6511	0.2820	0.2999
promoters	0.7917	0.5833	0.5833
puc-rio	0.9879	0.9908	0.9908
pufs-1281%	0.5025	0.0050	0.0050
pufs-6410%	0.5036	0.0072	0.0073
pulsar	0.9433	0.8840	0.8866
raisin	0.9115	0.8222	0.8230
rejafada	1.0000	1.0000	1.0000
relathe	0.9929	0.9858	0.9859
rice	0.9856	0.9711	0.9711
rocket	0.7167	0.4311	0.4334
RT_IOT2022	0.9704	0.9910	0.9910
satimage	0.8717	0.8632	0.8643
scadi	0.6984	0.6316	0.6860
schiller	0.8333	0.6087	0.6614
sclerosis	1.0000	1.0000	1.0000
secom	0.4834	0.0000	0.0000
secondary_mushroom	0.9997	0.9993	0.9993
seeds	0.9553	0.9286	0.9317
segment	0.9698	0.9595	0.9598
segmentation	0.8392	0.6783	0.6784
segmentO	0.9916	0.9830	0.9831
seismic	0.6083	0.0927	0.1547
sens-2-gram	0.6687	0.0675	0.1869
sens-3-gram	0.6196	0.0615	0.1412
sens-4-gram	0.5897	0.0557	0.1124
sensorless	0.9978	0.9976	0.9976
shoppers	0.8144	0.6285	0.6288
sick	0.8960	0.7685	0.7900
sirtuin6	1.0000	1.0000	1.0000
smarket	0.9921	0.9840	0.9841
smk_can_187	0.7889	0.5778	0.5778
smoking	0.8215	0.6288	0.6429
soil_pollution	0.2011	0.0037	0.0037
solar-flare	0.6354	0.7134	0.7209
sonar	0.6269	0.2000	0.2500
soybean	0.9894	0.9677	0.9687
spam-detection	0.8671	0.7340	0.7341
spambase	0.9499	0.8994	0.8998
spect	0.6250	0.2500	0.2500
spectf	0.8956	0.7692	0.7906
spectrometer	0.4303	0.5085	0.5151
squash-unstored	1.0000	1.0000	1.0000
startup	1.0000	1.0000	1.0000
steel_industry	0.8528	0.8109	0.8109
stellar	0.9650	0.9454	0.9456
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Dataset	F1-macro	Kappa	MCC
stock	0.7976	0.5950	0.5951
stockb	1.0000	1.0000	1.0000
streaming	0.9374	0.8742	0.8748
stress	1.0000	1.0000	1.0000
student-depression	0.8234	0.6456	0.6468
student-habits	0.1747	0.0159	0.0169
student-lifestyle	0.4547	0.4077	0.4097
student-weekend	0.4038	0.1950	0.2427
student-workday	0.1651	0.0000	0.0000
studentap	0.5940	0.4091	0.4129
swarm_aligned	0.9990	0.9981	0.9981
swarm_flocking	0.9988	0.9975	0.9975
swarm_grouped	0.9991	0.9982	0.9982
tae	0.4788	0.2000	0.2132
telco-churn	0.8703	0.7398	0.7405
texture	0.9810	0.9779	0.9780
theorem	0.9580	0.9153	0.9160
thoracic	0.4598	0.0000	0.0000
Thyroid_Diff	0.9365	0.8648	0.8728
tis	0.8352	0.6366	0.6680
titanic	0.7714	0.5247	0.5418
tourist	0.5250	0.6364	0.6848
trains	0.3369	0.0000	0.0000
transfusion	0.6087	0.2126	0.2168
tuandromd	0.9927	0.9854	0.9854
turkish	0.7854	0.7000	0.7101
tvnews	0.9246	0.8491	0.8491
ur3_cobotops_grip	0.7331	0.2790	0.4026
ur3_cobotops_stop	0.6652	0.2643	0.3071
urban	0.8345	0.7898	0.7932
ustilago10%	0.4973	0.0000	0.0000
vehicle	0.6750	0.6309	0.6350
vote	0.9307	0.8605	0.8615
vowel	0.7380	0.6778	0.6880
wap-wc	0.4364	0.6120	0.6283
warpar10p	0.7059	0.7400	0.7553
warppie10p	1.0000	1.0000	1.0000
waveform	0.8428	0.7601	0.7641
weather-related	0.9813	0.9760	0.9762
weight-lift	0.9970	0.9961	0.9961
white-clover	0.3750	-0.2000	0.0000
wifi-loc	0.9902	0.9867	0.9868
wilt	0.9092	0.8174	0.8183
wine	1.0000	1.0000	1.0000
winequality-red	0.3406	0.4939	0.4990
winequality-white	0.4466	0.5096	0.5144
winnipeg10%	0.9899	0.9837	0.9837
wisc.bc	0.9817	0.9627	0.9633
yale	0.7318	0.7322	0.7416
yeast	0.4982	0.4833	0.4921
yeastCYT-POX	0.9047	0.7897	0.8078
yeastEXC	0.7431	0.4861	0.4861
yeastME1	0.6958	0.3799	0.3883
yeastME2	0.7218	0.2410	0.3702
zip	0.9068	0.9023	0.9025

Table 58: Detailed results for Crazy OVA 5

Dataset	F1-macro	Kappa	MCC
abalone	0.1055	0.0814	0.0833
abalone19	0.4982	0.0000	0.0000
accelerometer	0.7137	0.2854	0.3783
ads	0.9482	0.8909	0.8963
adult	0.7865	0.5441	0.5717
advanced-iot	1.0000	1.0000	1.0000
AID_1431	0.4772	0.0000	0.0000
AID_1431_KlekotaRothFingerprinter	0.4772	0.0000	0.0000
AID_1431_MACCSFingerprinter	0.4772	0.0000	0.0000
AID_1878	0.6325	0.1393	0.2164
AID_602330	0.4866	-0.0169	0.0000
AID_652128	0.3118	0.0000	0.0000
AID1284red	0.7322	0.4419	0.4601
AID1608Moredred	0.4798	-0.0173	0.0000
AID1608red	0.4798	-0.0300	0.0000
AID362red	0.4965	0.0000	0.0000
AID373AID439red	0.4993	-0.0003	0.0000
AID373red	0.5510	0.0726	0.0874
AID456red	0.4987	-0.0024	0.0000
AID604	0.6782	0.1169	0.2381
AID604AID644_AllRed	0.4990	-0.0015	0.0000
AID687AID721red	0.4993	-0.0009	0.0000
AID687red	0.4986	-0.0029	0.0000
AID688red	0.4970	-0.0040	0.0000
AID721moredred	0.4375	0.0000	0.0000
AID721red	0.4375	0.0000	0.0000
AID746AID1284red	0.4990	-0.0015	0.0000
AID746red	0.5803	0.1570	0.1591
aids	0.8418	0.6817	0.6835
air_pollution	0.0826	0.0000	0.0000
alcohol	0.7022	0.7340	0.7459
all-aml	1.0000	1.0000	1.0000
anneal	0.9872	0.9766	0.9769
antivirus	1.0000	1.0000	1.0000
anuran-f-b	1.0000	1.0000	1.0000
anxiety	0.1103	0.0037	0.0037
apple-quality	0.8206	0.6400	0.6412
aps-failure	0.8260	0.6106	0.6448
arabidopsis1%	0.4980	0.0000	0.0000
arcene	0.7292	0.4231	0.4583
arrhythmia	0.4257	0.4533	0.5266
auction	0.9777	0.9544	0.9554
audiology	0.5713	0.7236	0.7379
audit-risk	1.0000	1.0000	1.0000
autism-adolescent	1.0000	1.0000	1.0000
autism-adult	1.0000	1.0000	1.0000
autism-child	1.0000	1.0000	1.0000
autos	0.9064	0.8667	0.8758
avila	0.9977	0.9994	0.9994
balance	0.5487	0.5638	0.5736
bank	0.7751	0.5497	0.5501
bankruptcy	1.0000	1.0000	1.0000
bio	0.8586	0.6748	0.7110
biodeg	0.8682	0.7362	0.7364
biomed	1.0000	1.0000	1.0000

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Dataset	F1-macro	Kappa	MCC
bitcoin10%	0.3120	0.2531	0.2653
body-perf	0.7235	0.6259	0.6317
brain-tumor	0.5187	0.0297	0.0367
breast-cancer	0.6242	0.2432	0.2477
breast-cancer-ma	0.6309	0.2414	0.2609
breast-tissue	0.7179	0.6733	0.6869
bridges	0.7895	0.8571	0.8697
bub12at310k-hg16-17	0.6994	0.3930	0.3975
cad	1.0000	1.0000	1.0000
cancer	1.0000	1.0000	1.0000
cancer-uae	0.3056	-0.0231	0.0000
car-insurance	0.8089	0.6148	0.6178
cardiotocography-nsp	0.8552	0.7765	0.7842
cardiovascular	0.7303	0.4574	0.4606
cargo2k	1.0000	1.0000	1.0000
cars	0.8096	0.7324	0.7354
ccds10%	0.6153	0.0628	0.1339
cdc_diabetes	0.4492	0.2886	0.3093
census	0.7490	0.4794	0.4873
cervical-B	0.8563	0.7088	0.7122
cervical-H	0.7962	0.5764	0.5897
cervical-S	0.8481	0.6446	0.6896
children-anemia	0.8241	0.8927	0.8945
chrom19	0.9427	0.8973	0.8940
chrom211%	0.4998	0.0000	0.0000
churn	0.7518	0.5007	0.5033
cjs	1.0000	1.0000	1.0000
ckd	1.0000	1.0000	1.0000
clave	0.6542	0.6291	0.6313
cll_sub_111	0.7222	0.4545	0.4545
cmc	0.5560	0.3303	0.3333
cnae-9	0.9729	0.9688	0.9688
codon_usage	0.6795	0.8231	0.8272
coil20	1.0000	1.0000	1.0000
college	0.9172	0.8338	0.8343
collins	1.0000	1.0000	1.0000
colon-tumor	0.8537	0.6667	0.7071
colposcopies-1	0.7635	0.4942	0.5249
colposcopies-2	0.7264	0.3176	0.4345
colposcopies-4	0.7810	0.4649	0.5504
colposcopies-5	0.4423	-0.0610	0.0000
colposcopies-c	0.8054	0.5323	0.6022
column-2c	0.9061	0.7947	0.8120
column-3c	0.7853	0.7359	0.7400
connect-4	0.7604	0.7056	0.7173
coupon	0.7339	0.4674	0.4677
covtype	0.9469	0.9292	0.9390
covtypeCD	0.9744	0.9485	0.9488
covtypeT	0.9268	0.8509	0.8534
crabs	0.8681	0.8000	0.8137
creditcard_trans	0.9215	0.8360	0.8473
crowdsourced	0.7961	0.8558	0.8573
cryotherapy	0.8163	0.5714	0.6325
cultivars	0.5367	0.5806	0.5878
cybersecurity	0.1446	-0.0228	0.0000
cyclopentane	0.6181	0.2241	0.2358
cylinder-bands	0.7761	0.5506	0.5522
datatrieve	0.4800	0.0000	0.0000
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Dataset	F1-macro	Kappa	MCC
dating	0.0979	-0.0024	0.0000
dbworld	1.0000	1.0000	1.0000
default	0.7169	0.4305	0.4333
dementia	1.0000	1.0000	1.0000
deposit	0.7555	0.5109	0.5110
depressed	0.4479	-0.0387	0.0000
dermatology	0.9429	0.9325	0.9325
desharnais	0.3901	0.1579	0.1627
df_final	0.6844	0.5349	0.5577
DIA	0.7692	0.4286	0.5222
diabetes-100k	0.8657	0.6915	0.7270
diagnosis	1.0000	1.0000	1.0000
diamonds	1.0000	1.0000	1.0000
diamonds_all	0.7304	0.6390	0.6467
dishonest	1.0000	1.0000	1.0000
dlbcl-nih	0.5966	0.1692	0.1908
dlbcl-stanford	0.9907	0.9871	1.0000
dna0.1%	0.4993	0.0000	0.0000
dota2	0.5751	0.1443	0.1443
drebin	0.9855	0.9709	0.9709
dropout	0.6697	0.5770	0.5878
ecoli	0.6893	0.7521	0.7617
ecoliCP-IM	1.0000	1.0000	1.0000
ecoliM	0.9175	0.8350	0.8350
ecoliMU	0.7024	0.3678	0.3975
ecoliOM	0.8514	0.6526	0.6960
ecommerce	0.2372	-0.0123	0.0000
euthyroid	0.9207	0.8413	0.8415
fakenews	0.4350	-0.0982	0.0000
fbis-wc	0.7219	0.7527	0.7585
finance	0.7418	0.4832	0.4836
financial-risk	0.4792	0.5702	0.6096
flags	0.4344	0.6154	0.6303
forest	0.8906	0.8669	0.8710
gas	0.9952	0.9948	0.9948
gastrointestinal	0.8485	0.7838	0.8094
gender	0.4827	0.1742	0.1778
german	0.6488	0.2840	0.2964
gestures	0.8671	0.8219	0.8231
gina	0.8940	0.7869	0.7879
gisette	0.9329	0.8657	0.8659
glass	0.7366	0.7316	0.7341
glass-g2	0.9392	0.8710	0.8783
glassBWFP	0.9507	0.8966	0.9014
glassBWNFP	0.9472	0.8889	0.8944
glassContainers	1.0000	1.0000	1.0000
glassNW	0.9340	0.8591	0.8677
glassTableware	0.4884	0.0000	0.0000
GlaucomaM	0.7978	0.5824	0.5955
gli_85	1.0000	1.0000	1.0000
glioma	0.8333	0.7059	0.7500
glioma-grade	0.8845	0.7610	0.7689
green	0.6098	0.2105	0.2182
gsalc	1.0000	1.0000	1.0000
haberman	0.6323	0.2593	0.2638
hapt	0.7984	0.9145	0.9148
har	0.9932	0.9923	0.9923
harth10%	0.5586	0.8207	0.8277
Continued on next page			

Dataset	F1-macro	Kappa	MCC
health-activity	0.2175	0.0000	0.0000
heart	0.8466	0.6932	0.6932
heart-c	0.9009	0.8000	0.8018
heart-failure	0.9837	0.9672	0.9675
heart-quantum	0.9249	0.8387	0.8498
hepatitis	0.7266	0.4444	0.4523
higher	0.1522	0.1250	0.1429
hinselmann	0.4444	0.0000	0.0000
hitters	0.9373	0.8745	0.8745
hiv1-proteasa	0.7453	0.4220	0.4777
hiva	0.5844	0.1005	0.1361
horse	0.6539	0.4508	0.4672
hotel-reservartions	0.8903	0.7803	0.7806
hr	0.4633	0.0000	0.0000
ht-sensor	1.0000	1.0000	1.0000
htru2	0.9318	0.8611	0.8635
hypothyroid	0.7320	0.9368	0.9368
immuno-therapy	0.8333	0.6087	0.6614
ionosphere	0.9038	0.8059	0.8076
iris	1.0000	1.0000	1.0000
irish	1.0000	1.0000	1.0000
isolet	0.8887	0.8825	0.8828
jm1	0.6553	0.3093	0.3103
jvowels	0.9683	0.9670	0.9671
kc1-class-level-numericdefect	0.3733	0.3500	0.4677
kc1-class-level-top5percentDF	0.4643	-0.0714	0.0000
kc2	0.7494	0.4979	0.4986
kdc-4007	0.8455	0.8137	0.8155
kddcup991%	0.9791	1.0000	1.0000
kidney	0.1778	0.0000	0.0000
kidney-disease	1.0000	1.0000	1.0000
la2s-wc	0.8190	0.8003	0.8057
labor	1.0000	1.0000	1.0000
leaf	0.6877	0.7211	0.7298
led24	0.8240	0.7740	0.7806
lenses	0.3333	0.0000	0.0000
letter	0.9558	0.9542	0.9543
linkage1%	0.9634	0.9266	0.9268
loan	0.9615	0.9214	0.9230
lrs	0.6315	0.7920	0.8002
lung_discrete	0.9164	0.8400	0.8573
lymphography	0.5520	0.6000	0.6181
lymphoma2	0.6027	0.6842	0.7120
machine-failure	0.9251	0.8483	0.8501
magic04	0.8514	0.6965	0.7027
malware	1.0000	1.0000	1.0000
mammography	0.8643	0.7285	0.7286
marketing	0.7781	0.5259	0.5516
mba	0.4527	0.3291	0.3454
mental-disorders	0.9270	0.8889	0.8972
messidor	0.6546	0.2989	0.3092
meter-A	0.8000	0.5294	0.6000
meter-B	1.0000	1.0000	1.0000
meter-C	1.0000	1.0000	1.0000
meter-D	0.9583	0.9234	0.9274
mfeat-fac	0.9608	0.9556	0.9558
mfeat-fou	0.7826	0.7556	0.7562
mfeat-kar	0.9562	0.9500	0.9502
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Dataset	F1-macro	Kappa	MCC
mfeat-mor	0.7077	0.6722	0.6729
mfeat-pix	0.9804	0.9778	0.9779
mfeat-zer	0.7698	0.7500	0.7509
mice-prot	1.0000	1.0000	1.0000
milk	0.9918	0.9855	0.9856
mines	0.6085	0.4871	0.4929
mobile	0.9600	0.9573	0.9574
monks-1	1.0000	1.0000	1.0000
monks-3	0.9824	0.9642	0.9648
mushroom	1.0000	1.0000	1.0000
music	0.5231	0.3747	0.3773
MUT_ci300400a_cdk_ECFP2	0.8034	0.6018	0.6068
MUT_ci300400a_cdk_ECFP4	0.8143	0.6194	0.6285
MUT_ci300400a_cdk_ECFP6	0.7935	0.5859	0.5871
MUT_ci300400a_cdk_ESTATE	0.7586	0.5148	0.5172
MUT_ci300400a_cdk_EXTENDED	0.8399	0.6792	0.6798
MUT_ci300400a_cdk_FCFP2	0.8335	0.6647	0.6670
MUT_ci300400a_cdk_FCFP4	0.7805	0.5573	0.5609
MUT_ci300400a_cdk_FCFP6	0.7904	0.5730	0.5808
MUT_ci300400a_cdk_MACCS	0.8348	0.6692	0.6696
MUT_ci300400a_cdk_PUBCHEM	0.8565	0.7128	0.7130
MUT_ci300400a_cdk_STANDARD	0.8305	0.6609	0.6609
MUT_ci300400a_rdkit_descriptors	0.8333	0.6651	0.6665
myocardial	0.3102	0.3867	0.4911
naticusdroid	0.9684	0.9368	0.9368
nci9	0.7895	0.8000	0.8281
ncRNA10%	0.7209	0.8443	0.8316
neo	0.7566	0.4127	0.4992
new-thyroid	1.0000	1.0000	1.0000
new-thyroidT	1.0000	1.0000	1.0000
newspop	0.6705	0.3387	0.3410
NHANES_age_prediction	1.0000	1.0000	1.0000
nomao	0.9546	0.9090	0.9091
nursery	0.9243	0.9387	0.9392
obesity	0.9384	0.9280	0.9288
obs	1.0000	1.0000	1.0000
oh0-wc	0.9537	0.9434	0.9440
oh10-wc	0.8104	0.7825	0.7862
oh15-wc	0.9087	0.8883	0.8911
oh5-wc	0.8847	0.8630	0.8651
olive	0.9174	0.9123	0.9157
optdigits	0.9682	0.9624	0.9626
orlraws10P	1.0000	1.0000	1.0000
ozone1hr	0.4909	0.0000	0.0000
p53-mutants10%	0.4992	0.0000	0.0000
parkinson	0.9915	0.9828	0.9830
particle	0.9055	0.8110	0.8111
pc1	0.7306	0.4612	0.4612
pcmac	0.3660	-0.0103	0.0000
pediatric-leukemia	0.5859	0.6645	0.6917
pendigits	0.9829	0.9808	0.9808
period-10f	0.5950	0.1818	0.1890
persistence	0.8009	0.5981	0.6016
personalities	0.9784	0.9757	0.9639
pet-adoption	0.8804	0.7480	0.7604
phishing	0.9700	0.9399	0.9400
PhiUSIL10%	0.9996	0.9991	0.9991
phy	0.7060	0.4027	0.4120
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Dataset	F1-macro	Kappa	MCC
pima	0.6871	0.3569	0.3732
pirvision	0.9852	0.9794	0.9794
placement	0.7757	0.5511	0.5515
plrx	0.3793	-0.1887	0.0000
polya	0.7399	0.4665	0.4791
popularity	0.5556	0.2795	0.2969
post-operative	0.4000	0.0000	0.0000
postures	0.9867	0.9837	0.9837
pred-tox_mutagen_ref-desc	0.7357	0.4706	0.4714
prestige	0.8889	0.8302	0.8462
primary-tumor	0.3885	0.3920	0.4015
processed	1.0000	1.0000	1.0000
profb	0.6476	0.2629	0.2907
promoters	0.8333	0.6154	0.6667
puc-rio	0.9863	0.9831	0.9892
pufs-1281%	0.4954	-0.0049	0.0000
pufs-6410%	0.5084	0.0067	0.0078
pulsar	0.9459	0.8895	0.8917
raisin	0.9115	0.8222	0.8230
rejabatada	1.0000	1.0000	1.0000
relathe	0.9929	0.9858	0.9859
rice	0.9856	0.9711	0.9711
rocket	0.6909	0.3709	0.3819
RT_IOT2022	0.9863	1.0000	1.0000
satimage	0.8772	0.8671	0.8681
scadi	0.6984	0.6316	0.6860
schiller	0.8333	0.6087	0.6614
sclerosis	1.0000	1.0000	1.0000
secom	0.4834	0.0000	0.0000
secondary_mushroom	0.9997	0.9993	0.9993
seeds	0.9553	0.9286	0.9317
segment	0.9698	0.9595	0.9598
segmentation	0.8433	0.6841	0.6866
segmentO	1.0000	1.0000	1.0000
seismic	0.5348	0.0544	0.0627
sens-2-gram	0.6856	0.1312	0.2650
sens-3-gram	0.6404	0.0934	0.1887
sens-4-gram	0.5897	0.0557	0.1124
sensorless	0.9985	0.9983	0.9983
shoppers	0.8066	0.6117	0.6131
sick	0.8960	0.7685	0.7900
sirtuin6	1.0000	1.0000	1.0000
smarket	0.9921	0.9840	0.9841
smk_can_187	0.7389	0.4751	0.4778
smoking	0.8191	0.6186	0.6381
soil_pollution	0.2302	0.0435	0.0445
solar-flare	0.6342	0.7128	0.7159
sonar	0.7185	0.4000	0.4364
soybean	1.0000	1.0000	1.0000
spam-detection	0.8659	0.7317	0.7317
spambase	0.9499	0.8994	0.8998
spect	0.6250	0.2500	0.2500
spectf	0.8956	0.7692	0.7906
spectrometer	0.4805	0.5299	0.5359
squash-unstored	1.0000	1.0000	1.0000
startup	1.0000	1.0000	1.0000
steel_industry	0.8506	0.8074	0.8074
stellar	0.9668	0.9482	0.9483
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Dataset	F1-macro	Kappa	MCC
stock	0.7953	0.5899	0.5905
stockb	1.0000	1.0000	1.0000
streaming	0.9312	0.8622	0.8624
stress	1.0000	1.0000	1.0000
student-depression	0.8118	0.6227	0.6237
student-habits	0.1741	0.0127	0.0138
student-lifestyle	0.3439	0.3549	0.3575
student-weekend	0.2994	0.0901	0.0962
student-workday	0.2784	0.1513	0.2826
studentap	0.5111	0.2909	0.2909
swarm_aligned	0.9990	0.9981	0.9981
swarm_flocking	0.9988	0.9975	0.9975
swarm_grouped	0.9991	0.9982	0.9982
tae	0.6082	0.4000	0.4027
telco-churn	0.8686	0.7365	0.7372
texture	0.9831	0.9800	0.9800
theorem	0.9528	0.9056	0.9056
thoracic	0.4598	0.0000	0.0000
Thyroid_Diff	0.9365	0.8648	0.8728
tis	0.8432	0.6629	0.6849
titanic	0.7714	0.5247	0.5418
tourist	0.5250	0.6364	0.6848
trains	1.0000	1.0000	1.0000
transfusion	0.5502	0.0988	0.1002
tuandromd	0.9891	0.9782	0.9782
turkish	0.7741	0.7000	0.7041
tvnews	0.9342	0.8946	0.8834
ur3_cobotops_grip	0.7495	0.3374	0.4505
ur3_cobotops_stop	0.7288	0.4246	0.4490
urban	0.8590	0.8251	0.8277
ustilago10%	0.4923	0.0000	0.0000
vehicle	0.7332	0.6944	0.6978
vote	0.9307	0.8605	0.8615
vowel	0.7436	0.6778	0.6908
wap-wc	0.4765	0.6245	0.6381
warpar10p	0.7059	0.7400	0.7553
warppie10p	1.0000	1.0000	1.0000
waveform	0.8438	0.7601	0.7648
weather-related	0.9750	0.9695	0.9698
weight-lift	0.9966	0.9958	0.9958
white-clover	0.6604	0.1818	0.3162
wifi-loc	0.9902	0.9867	0.9868
wilt	0.8995	0.7987	0.7989
wine	1.0000	1.0000	1.0000
winequality-red	0.3378	0.4953	0.4997
winequality-white	0.4566	0.5161	0.5206
winnipeg10%	0.9905	0.9845	0.9845
wisc.bc	0.9817	0.9627	0.9633
yale	0.7318	0.7322	0.7416
yeast	0.4450	0.4492	0.4539
yeastCYT-POX	0.9047	0.7897	0.8078
yeastEXC	0.7431	0.4861	0.4861
yeastME1	0.6958	0.3799	0.3883
yeastME2	0.7218	0.2410	0.3702
zip	0.9224	0.9192	0.9193

Table 59: Detailed results for Crazier OVA 5

Dataset	F1-macro	Kappa	MCC
abalone	0.1024	0.0768	0.0786
abalone19	0.4982	0.0000	0.0000
accelerometer	0.7137	0.2854	0.3783
ads	0.9482	0.8909	0.8963
adult	0.7860	0.5445	0.5708
advanced-iot	1.0000	1.0000	1.0000
AID_1431	0.4772	0.0000	0.0000
AID_1431_KlekotaRothFingerprinter	0.4772	0.0000	0.0000
AID_1431_MACCSFingerprinter	0.4772	0.0000	0.0000
AID_1878	0.4503	0.0000	0.0000
AID_602330	0.4866	-0.0169	0.0000
AID_652128	0.3118	0.0000	0.0000
AID1284red	0.7322	0.4419	0.4601
AID1608Morered	0.4798	-0.0173	0.0000
AID1608red	0.4798	-0.0300	0.0000
AID362red	0.4965	0.0000	0.0000
AID373AID439red	0.4996	-0.0003	0.0000
AID373red	0.5593	0.1040	0.1119
AID456red	0.4987	-0.0024	0.0000
AID604	0.6782	0.1172	0.2384
AID604AID644_AllRed	0.4992	-0.0013	0.0000
AID687AID721red	0.4995	-0.0009	0.0000
AID687red	0.4989	-0.0017	0.0000
AID688red	0.4972	-0.0031	0.0000
AID721morered	0.4375	0.0000	0.0000
AID721red	0.4375	0.0000	0.0000
AID746AID1284red	0.4993	-0.0013	0.0000
AID746red	0.5801	0.1447	0.1536
aids	0.8547	0.7093	0.7094
air_pollution	0.0826	0.0000	0.0000
alcohol	0.6864	0.6786	0.7006
all-aml	1.0000	1.0000	1.0000
anneal	0.9872	0.9766	0.9769
antivirus	1.0000	1.0000	1.0000
anuran-f-b	1.0000	1.0000	1.0000
anxiety	0.1273	0.0226	0.0228
apple-quality	0.8139	0.6250	0.6278
aps-failure	0.8422	0.6590	0.6804
arabidopsis1%	0.5023	0.0000	0.0000
arcene	0.7292	0.4231	0.4583
arrhythmia	0.4110	0.3994	0.4832
auction	0.9777	0.9544	0.9554
audiology	0.6675	0.7816	0.7921
audit-risk	1.0000	1.0000	1.0000
autism-adolescent	1.0000	1.0000	1.0000
autism-adult	1.0000	1.0000	1.0000
autism-child	1.0000	1.0000	1.0000
autos	0.9064	0.8667	0.8758
avila	0.9977	0.9994	0.9994
balance	0.5653	0.6385	0.6514
bank	0.7651	0.5303	0.5303
bankruptcy	1.0000	1.0000	1.0000
bio	0.8611	0.6814	0.7164
biodeg	0.8780	0.7553	0.7560
biomed	1.0000	1.0000	1.0000
Continued on next page			

Dataset	F1-macro	Kappa	MCC
bitcoin10%	0.3166	0.2825	0.2990
body-perf	0.7295	0.6338	0.6391
brain-tumor	0.5105	0.0205	0.0209
breast-cancer	0.6242	0.2432	0.2477
breast-cancer-ma	0.5222	0.0351	0.0430
breast-tissue	0.7179	0.6733	0.6869
bridges	0.6525	0.6970	0.7098
bub12at310k-hg16-17	0.7007	0.3796	0.3959
cad	1.0000	1.0000	1.0000
cancer	1.0000	1.0000	1.0000
cancer-uae	0.3081	-0.0216	0.0000
car-insurance	0.8166	0.6309	0.6332
cardiotocography-nsp	0.8323	0.7506	0.7565
cardiovascular	0.7310	0.4585	0.4620
cargo2k	1.0000	1.0000	1.0000
cars	0.8096	0.7324	0.7354
ccds10%	0.6778	0.0672	0.1857
cdc_diabetes	0.4463	0.3131	0.3212
census	0.7563	0.4967	0.4998
cervical-B	0.8563	0.7088	0.7122
cervical-H	0.8689	0.7378	0.7378
cervical-S	0.8481	0.6446	0.6896
children-anemia	0.8241	0.8927	0.8945
chrom19	0.9530	0.8892	0.8960
chrom211%	0.4998	0.0000	0.0000
churn	0.7568	0.5069	0.5128
cjs	1.0000	1.0000	1.0000
ckd	1.0000	1.0000	1.0000
clave	0.6718	0.6436	0.6456
cll_sub_111	0.7222	0.4545	0.4545
cmc	0.5705	0.3574	0.3599
cnae-9	0.9729	0.9688	0.9688
codon_usage	0.6794	0.8221	0.8263
coil20	1.0000	1.0000	1.0000
college	0.9172	0.8338	0.8343
collins	1.0000	1.0000	1.0000
colon-tumor	0.8537	0.6667	0.7071
colposcopies-1	0.7797	0.4663	0.5514
colposcopies-2	0.7264	0.3176	0.4345
colposcopies-4	0.7810	0.4649	0.5504
colposcopies-5	0.4423	-0.0610	0.0000
colposcopies-c	0.8054	0.5323	0.6022
column-2c	0.9061	0.7947	0.8120
column-3c	0.7853	0.7359	0.7400
connect-4	0.7615	0.7071	0.7205
coupon	0.7307	0.4612	0.4613
covtype	0.9368	0.9093	0.9233
covtypeCD	0.9788	0.9575	0.9576
covtypeT	0.9371	0.8731	0.8741
crabs	0.9141	0.8667	0.8785
creditcard_trans	0.9126	0.8420	0.8448
crowdsourced	0.7963	0.8578	0.8593
cryotherapy	0.8163	0.5714	0.6325
cultivars	0.6058	0.6452	0.6498
cybersecurity	0.1692	0.0054	0.0055
cyclopentane	0.6181	0.2241	0.2358
cylinder-bands	0.7908	0.5811	0.5815
datatrieve	0.4800	0.0000	0.0000
Continued on next page			

Dataset	F1-macro	Kappa	MCC
dating	0.1058	0.0067	0.0067
dbworld	1.0000	1.0000	1.0000
default	0.7159	0.4261	0.4310
dementia	1.0000	1.0000	1.0000
deposit	0.7476	0.4945	0.4950
depressed	0.4479	-0.0387	0.0000
dermatology	0.9429	0.9325	0.9325
desharnais	0.5032	0.3143	0.3235
df_final	0.6844	0.5349	0.5577
DIA	0.7692	0.4286	0.5222
diabetes-100k	0.8930	0.7612	0.7839
diagnosis	1.0000	1.0000	1.0000
diamonds	1.0000	1.0000	1.0000
diamonds_all	0.7334	0.6426	0.6497
dishonest	1.0000	1.0000	1.0000
dlbcl-nih	0.6923	0.2258	0.3568
dlbcl-stanford	0.8333	0.6154	0.6667
dna0.1%	0.4993	0.0000	0.0000
dota2	0.5686	0.1419	0.1465
drebin	0.9847	0.9694	0.9695
dropout	0.6644	0.5812	0.5916
ecoli	0.6893	0.7521	0.7617
ecoliCP-IM	1.0000	1.0000	1.0000
ecoliM	0.9175	0.8350	0.8350
ecoliMU	0.7024	0.3678	0.3975
ecoliOM	0.8514	0.6526	0.6960
ecommerce	0.2509	0.0013	0.0013
euthyroid	0.9267	0.8527	0.8533
fakenews	0.4703	-0.0589	0.0000
fbis-wc	0.7423	0.7719	0.7766
finance	0.7214	0.4369	0.4427
financial-risk	0.4716	0.5598	0.5978
flags	0.6212	0.7452	0.7552
forest	0.8906	0.8669	0.8710
gas	0.9954	0.9948	0.9948
gastrointestinal	0.8485	0.7838	0.8094
gender	0.4801	0.1674	0.1739
german	0.6722	0.3220	0.3423
gestures	0.8752	0.8333	0.8340
gina	0.9137	0.8271	0.8273
gisette	0.9329	0.8657	0.8657
glass	0.7366	0.7316	0.7341
glass-g2	0.9392	0.8710	0.8783
glassBWFP	0.9032	0.7879	0.8062
glassBWNFP	0.9472	0.8889	0.8944
glassContainers	1.0000	1.0000	1.0000
glassNW	0.9340	0.8591	0.8677
glassTableware	0.4884	0.0000	0.0000
GlaucomaM	0.7978	0.5824	0.5955
gli_85	1.0000	1.0000	1.0000
glioma	0.8333	0.7059	0.7500
glioma-grade	0.8845	0.7610	0.7689
green	0.6098	0.2105	0.2182
gsalc	1.0000	1.0000	1.0000
haberman	0.6698	0.3226	0.3371
hapt	0.8259	0.9155	0.9160
har	0.9939	0.9929	0.9929
harth10%	0.5560	0.7864	0.8005
Continued on next page			

Dataset	F1-macro	Kappa	MCC
health-activity	0.2175	0.0000	0.0000
heart	0.8466	0.6932	0.6932
heart-c	0.9009	0.8000	0.8018
heart-failure	0.9837	0.9672	0.9675
heart-quantum	0.9249	0.8387	0.8498
hepatitis	0.7266	0.4444	0.4523
higher	0.1522	0.1250	0.1429
hinselmann	0.4444	0.0000	0.0000
hitters	0.9373	0.8745	0.8745
hiv1-proteasa	0.7453	0.4220	0.4777
hiva	0.5844	0.1005	0.1361
horse	0.6830	0.4835	0.5209
hotel-reservartions	0.8933	0.7863	0.7865
hr	0.4633	0.0000	0.0000
ht-sensor	0.9852	0.9975	0.9968
htru2	0.9353	0.8675	0.8704
hypothyroid	0.7320	0.9368	0.9368
immuno-therapy	0.8333	0.6087	0.6614
ionosphere	0.9038	0.8059	0.8076
iris	1.0000	1.0000	1.0000
irish	1.0000	1.0000	1.0000
isolet	0.8929	0.8865	0.8868
jm1	0.6591	0.3082	0.3162
javowels	0.9669	0.9659	0.9659
kc1-class-level-numericdefect	0.1636	0.0000	0.0000
kc1-class-level-top5percentDF	0.4643	-0.0714	0.0000
kc2	0.7494	0.4979	0.4986
kdc-4007	0.8596	0.8341	0.8348
kddcup991%	0.9827	0.9882	0.9984
kidney	0.1778	0.0000	0.0000
kidney-disease	1.0000	1.0000	1.0000
la2s-wc	0.8111	0.7919	0.7972
labor	1.0000	1.0000	1.0000
leaf	0.6877	0.7211	0.7298
led24	0.7684	0.7167	0.7208
lenses	0.3333	0.0000	0.0000
letter	0.9547	0.9532	0.9532
linkage1%	0.9634	0.9266	0.9268
loan	0.9638	0.9262	0.9276
lrs	0.6315	0.7920	0.8002
lung_discrete	0.7652	0.8367	0.8549
lymphography	0.5520	0.6000	0.6181
lymphoma2	0.6027	0.6842	0.7120
machine-failure	0.9251	0.8483	0.8501
magic04	0.8532	0.7006	0.7063
malware	1.0000	1.0000	1.0000
mammography	0.8643	0.7285	0.7286
marketing	0.7517	0.4493	0.4933
mba	0.4389	0.3084	0.3090
mental-disorders	0.9270	0.8889	0.8972
messidor	0.6576	0.3147	0.3152
meter-A	0.8000	0.5294	0.6000
meter-B	1.0000	1.0000	1.0000
meter-C	1.0000	1.0000	1.0000
meter-D	0.8784	0.8448	0.8561
mfeat-fac	0.9656	0.9611	0.9613
mfeat-fou	0.7635	0.7333	0.7345
mfeat-kar	0.9562	0.9500	0.9502
Continued on next page			

Dataset	F1-macro	Kappa	MCC
mfeat-mor	0.7077	0.6722	0.6729
mfeat-pix	0.9854	0.9833	0.9834
mfeat-zer	0.7729	0.7500	0.7503
mice-prot	1.0000	1.0000	1.0000
milk	0.9918	0.9855	0.9856
mines	0.6290	0.5232	0.5278
mobile	0.9579	0.9537	0.9539
monks-1	1.0000	1.0000	1.0000
monks-3	0.9824	0.9642	0.9648
mushroom	1.0000	1.0000	1.0000
music	0.5246	0.3768	0.3807
MUT_ci300400a_cdk_ECFP2	0.8057	0.6100	0.6114
MUT_ci300400a_cdk_ECFP4	0.8172	0.6275	0.6343
MUT_ci300400a_cdk_ECFP6	0.8047	0.6094	0.6095
MUT_ci300400a_cdk_ESTATE	0.7677	0.5350	0.5355
MUT_ci300400a_cdk_EXTENDED	0.8341	0.6681	0.6682
MUT_ci300400a_cdk_FCFP2	0.8334	0.6657	0.6667
MUT_ci300400a_cdk_FCFP4	0.7876	0.5727	0.5751
MUT_ci300400a_cdk_FCFP6	0.7861	0.5653	0.5723
MUT_ci300400a_cdk_MACCS	0.8316	0.6632	0.6633
MUT_ci300400a_cdk_PUBCHEM	0.8570	0.7140	0.7140
MUT_ci300400a_cdk_STANDARD	0.8298	0.6595	0.6595
MUT_ci300400a_rdkit_descriptors	0.8340	0.6670	0.6679
myocardial	0.3102	0.3867	0.4911
naticusdroid	0.9650	0.9299	0.9300
nci9	0.7895	0.8000	0.8281
ncRNA10%	0.7091	0.8285	0.8294
neo	0.7569	0.4231	0.5010
new-thyroid	1.0000	1.0000	1.0000
new-thyroidT	1.0000	1.0000	1.0000
newspop	0.6752	0.3501	0.3505
NHANES_age_prediction	1.0000	1.0000	1.0000
nomao	0.9533	0.9065	0.9065
nursery	0.9495	0.9513	0.9517
obesity	0.9341	0.9225	0.9234
obs	1.0000	1.0000	1.0000
oh0-wc	0.9446	0.9320	0.9326
oh10-wc	0.7972	0.7606	0.7646
oh15-wc	0.9001	0.8757	0.8783
oh5-wc	0.8688	0.8377	0.8408
olive	0.9174	0.9123	0.9157
optdigits	0.9630	0.9565	0.9566
orlraws10P	0.8743	0.8889	0.8989
ozone1hr	0.4909	0.0000	0.0000
p53-mutants10%	0.4992	0.0000	0.0000
parkinson	0.9915	0.9828	0.9830
particle	0.9069	0.8138	0.8139
pc1	0.7306	0.4612	0.4612
pcmac	0.3660	-0.0103	0.0000
pediatric-leukemia	0.5607	0.6280	0.6472
pendigits	0.9812	0.9788	0.9788
period-10f	0.5000	0.0000	0.0000
persistence	0.7978	0.5924	0.5955
personalities	0.9802	0.9616	0.9630
pet-adoption	0.8937	0.7701	0.7870
phishing	0.9743	0.9484	0.9486
PhiUSIL10%	0.9996	0.9991	0.9991
phy	0.7106	0.4202	0.4212
Continued on next page			

Dataset	F1-macro	Kappa	MCC
pima	0.6871	0.3569	0.3732
pirvision	0.9830	0.9753	0.9754
placement	0.7848	0.5693	0.5697
plrx	0.4000	-0.1020	0.0000
polya	0.7411	0.4594	0.4809
popularity	0.4319	0.2496	0.2827
post-operative	0.4000	0.0000	0.0000
postures	0.9874	0.9845	0.9845
pred-tox_mutagen_ref-desc	0.7059	0.4118	0.4118
prestige	0.8889	0.8302	0.8462
primary-tumor	0.4096	0.4228	0.4304
processed	1.0000	0.9920	1.0000
profb	0.6284	0.2343	0.2536
promoters	0.9083	0.8000	0.8165
puc-rio	0.9992	0.9772	1.0000
pufs-1281%	0.5088	0.0166	0.0175
pufs-6410%	0.5027	0.0041	0.0041
pulsar	0.9485	0.8950	0.8969
raisin	0.9115	0.8222	0.8230
rejafada	1.0000	1.0000	1.0000
relathe	0.9929	0.9858	0.9859
rice	0.9856	0.9711	0.9711
rocket	0.7099	0.4180	0.4198
RT_IOT2022	0.9746	1.0000	0.9967
satimage	0.8747	0.8651	0.8662
scadi	0.6984	0.6316	0.6860
schiller	0.8333	0.6087	0.6614
sclerosis	1.0000	1.0000	1.0000
secom	0.4834	0.0000	0.0000
secondary_mushroom	0.9997	0.9993	0.9993
seeds	0.9553	0.9286	0.9317
segment	0.9698	0.9595	0.9598
segmentation	0.8511	0.7016	0.7022
segmentO	1.0000	1.0000	1.0000
seismic	0.5751	0.0819	0.1169
sens-2-gram	0.6772	0.0998	0.2292
sens-3-gram	0.6196	0.0615	0.1412
sens-4-gram	0.5503	0.0232	0.0532
sensorless	0.9983	0.9981	0.9981
shoppers	0.8111	0.6217	0.6222
sick	0.8829	0.7484	0.7640
sirtuin6	1.0000	1.0000	1.0000
smarket	0.9921	0.9840	0.9841
smk_can_187	0.7389	0.4751	0.4778
smoking	0.8209	0.6279	0.6417
soil_pollution	0.1912	-0.0062	0.0000
solar-flare	0.6340	0.7130	0.7161
sonar	0.5730	0.1000	0.1400
soybean	1.0000	1.0000	1.0000
spam-detection	0.8671	0.7340	0.7341
spambase	0.9499	0.8994	0.8998
spect	0.6250	0.2500	0.2500
spectf	0.8956	0.7692	0.7906
spectrometer	0.4795	0.5295	0.5375
squash-unstored	1.0000	1.0000	1.0000
startup	1.0000	1.0000	1.0000
steel_industry	0.8550	0.8137	0.8138
stellar	0.9662	0.9472	0.9474
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Dataset	F1-macro	Kappa	MCC
stock	0.7888	0.5776	0.5776
stockb	1.0000	1.0000	1.0000
streaming	0.9354	0.8701	0.8708
stress	1.0000	1.0000	1.0000
student-depression	0.8238	0.6468	0.6477
student-habits	0.1604	-0.0337	0.0000
student-lifestyle	0.3486	0.3716	0.3741
student-weekend	0.3818	0.1741	0.1890
student-workday	0.2655	0.0777	0.1982
studentap	0.5111	0.2909	0.2909
swarm_aligned	0.9990	0.9981	0.9981
swarm_flocking	0.9988	0.9975	0.9975
swarm_grouped	0.9987	0.9973	0.9973
tae	0.6082	0.4000	0.4027
telco-churn	0.8714	0.7413	0.7428
texture	0.9794	0.9759	0.9760
theorem	0.9562	0.9121	0.9124
thoracic	0.4598	0.0000	0.0000
Thyroid_Diff	0.9365	0.8648	0.8728
tis	0.8363	0.6393	0.6703
titanic	0.7714	0.5247	0.5418
tourist	0.5250	0.6364	0.6848
trains	1.0000	1.0000	1.0000
transfusion	0.5752	0.1470	0.1499
tuandromd	0.9927	0.9854	0.9854
turkish	0.8008	0.7333	0.7376
tvnews	0.9478	0.8735	0.8995
ur3_cobotops_grip	0.7331	0.2790	0.4026
ur3_cobotops_stop	0.6746	0.3009	0.3333
urban	0.8590	0.8251	0.8277
ustilago10%	0.5032	0.0000	0.0000
vehicle	0.7117	0.6637	0.6694
vote	0.9307	0.8605	0.8615
vowel	0.7337	0.6667	0.6786
wap-wc	0.4922	0.6390	0.6525
warpar10p	0.7059	0.7400	0.7553
warppie10p	1.0000	1.0000	1.0000
waveform	0.8451	0.7631	0.7674
weather-related	0.9750	0.9695	0.9698
weight-lift	0.9969	0.9961	0.9961
white-clover	0.6604	0.1818	0.3162
wifi-loc	0.9902	0.9867	0.9868
wilt	0.9092	0.8174	0.8183
wine	1.0000	1.0000	1.0000
winequality-red	0.3406	0.4939	0.4990
winequality-white	0.4554	0.5179	0.5233
winnipeg10%	0.9910	0.9852	0.9853
wisc.bc	0.9817	0.9627	0.9633
yale	0.7652	0.7983	0.8051
yeast	0.4438	0.4408	0.4461
yeastCYT-POX	0.9047	0.7897	0.8078
yeastEXC	0.7431	0.4861	0.4861
yeastME1	0.6958	0.3799	0.3883
yeastME2	0.7218	0.2410	0.3702
zip	0.9225	0.9192	0.9193

Table 60: Detailed results for Crazy OVO 5

Dataset	F1-macro	Kappa	MCC
abalone	0.1347	0.0713	0.0726
abalone19	0.4982	0.0000	0.0000
accelerometer	0.7222	0.3097	0.4000
ads	0.9482	0.8909	0.8963
adult	0.7856	0.5412	0.5698
advanced-iot	1.0000	1.0000	1.0000
AID_1431	0.4772	0.0000	0.0000
AID_1431_KlekotaRothFingerprinter	0.4772	0.0000	0.0000
AID_1431_MACCSFingerprinter	0.4772	0.0000	0.0000
AID_1878	0.4474	-0.0184	0.0000
AID_602330	0.4866	-0.0169	0.0000
AID_652128	0.3118	0.0000	0.0000
AID1284red	0.6850	0.3662	0.3692
AID1608Moredred	0.4772	-0.0311	0.0000
AID1608red	0.4798	-0.0300	0.0000
AID362red	0.4947	-0.0094	0.0000
AID373AID439red	0.4991	-0.0003	0.0000
AID373red	0.5492	0.0652	0.0815
AID456red	0.4990	-0.0015	0.0000
AID604	0.6780	0.1162	0.2373
AID604AID644_AllRed	0.4992	-0.0014	0.0000
AID687AID721red	0.4990	-0.0010	0.0000
AID687red	0.4981	-0.0036	0.0000
AID688red	0.4972	-0.0031	0.0000
AID721moredred	0.4375	0.0000	0.0000
AID721red	0.4375	0.0000	0.0000
AID746AID1284red	0.4986	-0.0017	0.0000
AID746red	0.5640	0.1279	0.1280
aids	0.8494	0.6986	0.6988
air_pollution	0.0826	0.0000	0.0000
alcohol	0.5884	0.7075	0.7227
all-aml	1.0000	1.0000	1.0000
anneal	0.9872	0.9766	0.9769
antivirus	1.0000	1.0000	1.0000
anuran-f-b	1.0000	1.0000	1.0000
anxiety	0.1019	-0.0041	0.0000
apple-quality	0.8049	0.6050	0.6098
aps-failure	0.8078	0.5445	0.6012
arabidopsis1%	0.4980	0.0000	0.0000
arcene	0.7292	0.4231	0.4583
arrhythmia	0.3191	0.3284	0.4434
auction	0.9777	0.9544	0.9554
audiology	0.6654	0.7848	0.7908
audit-risk	1.0000	1.0000	1.0000
autism-adolescent	1.0000	1.0000	1.0000
autism-adult	1.0000	1.0000	1.0000
autism-child	1.0000	1.0000	1.0000
autos	0.9064	0.8667	0.8758
avila	0.9927	0.9981	0.9981
balance	0.5026	0.4556	0.4805
bank	0.7705	0.5410	0.5410
bankruptcy	1.0000	1.0000	1.0000
bio	0.8535	0.6612	0.7001
biodeg	0.8576	0.7146	0.7152
biomed	1.0000	1.0000	1.0000

Continued on next page

Dataset	F1-macro	Kappa	MCC
bitcoin10%	0.2463	0.0697	0.1442
body-perf	0.7220	0.6199	0.6276
brain-tumor	0.4993	-0.0013	0.0000
breast-cancer	0.6242	0.2432	0.2477
breast-cancer-ma	0.6857	0.2143	0.3464
breast-tissue	0.8470	0.7800	0.7879
bridges	0.7895	0.8571	0.8697
bub12at310k-hg16-17	0.7010	0.3941	0.4001
cad	1.0000	1.0000	1.0000
cancer	1.0000	1.0000	1.0000
cancer-uae	0.2978	-0.0484	0.0000
car-insurance	0.8116	0.6206	0.6232
cardiotocography-nsp	0.8454	0.7567	0.7598
cardiovascular	0.7302	0.4571	0.4604
cargo2k	1.0000	1.0000	1.0000
cars	0.8096	0.7324	0.7354
ccds10%	0.6153	0.0628	0.1339
cdc_diabetes	0.4564	0.3203	0.3313
census	0.7504	0.4784	0.4943
cervical-B	0.7962	0.5764	0.5897
cervical-H	0.8689	0.7378	0.7378
cervical-S	0.8481	0.6446	0.6896
children-anemia	0.8976	0.9022	0.9035
chrom19	0.9463	0.8663	0.8664
chrom211%	0.4998	0.0000	0.0000
churn	0.7525	0.5037	0.5049
cjs	1.0000	1.0000	1.0000
ckd	1.0000	1.0000	1.0000
clave	0.6883	0.6571	0.6575
cll_sub_111	0.8028	0.6000	0.6068
cmc	0.5216	0.2928	0.2936
cnae-9	0.9560	0.9479	0.9483
codon_usage	0.6999	0.8377	0.8405
coil20	1.0000	1.0000	1.0000
college	0.9172	0.8338	0.8343
collins	1.0000	1.0000	1.0000
colon-tumor	0.8537	0.6667	0.7071
colposcopies-1	0.7424	0.3596	0.4682
colposcopies-2	0.7264	0.3176	0.4345
colposcopies-4	0.7810	0.4649	0.5504
colposcopies-5	0.4423	-0.0610	0.0000
colposcopies-c	0.8054	0.5323	0.6022
column-2c	0.8634	0.7195	0.7266
column-3c	0.7007	0.6353	0.6364
connect-4	0.7754	0.7329	0.7347
coupon	0.7350	0.4698	0.4699
covtype	0.9149	0.9174	0.9442
covtypeCD	0.9777	0.9554	0.9555
covtypeT	0.9082	0.8091	0.8159
crabs	0.8681	0.8000	0.8137
creditcard_trans	0.8463	0.6482	0.6854
crowdsourced	0.8085	0.8608	0.8629
cryotherapy	0.7404	0.3721	0.4781
cultivars	0.5129	0.5484	0.5557
cybersecurity	0.1740	0.0023	0.0023
cyclopentane	0.6181	0.2241	0.2358
cylinder-bands	0.8183	0.6296	0.6367
datatrieve	0.4800	0.0000	0.0000
Continued on next page			

Dataset	F1-macro	Kappa	MCC
dating	0.1030	0.0040	0.0044
dbworld	1.0000	1.0000	1.0000
default	0.7140	0.4226	0.4273
dementia	1.0000	1.0000	1.0000
deposit	0.7522	0.5043	0.5044
depressed	0.4542	0.0000	0.0000
dermatology	0.9429	0.9325	0.9325
desharnais	0.5032	0.3143	0.3235
df_final	0.7933	0.6322	0.6839
DIA	0.7692	0.4286	0.5222
diabetes-100k	0.8540	0.6605	0.7022
diagnosis	1.0000	1.0000	1.0000
diamonds	1.0000	1.0000	1.0000
diamonds_all	0.7438	0.6549	0.6581
dishonest	1.0000	1.0000	1.0000
dlbcl-nih	0.5294	0.0323	0.0510
dlbcl-stanford	0.8333	0.6154	0.6667
dna0.1%	0.4993	0.0000	0.0000
dota2	0.5745	0.1485	0.1491
drebin	0.9840	0.9680	0.9680
dropout	0.6829	0.5950	0.6005
ecoli	0.7121	0.7957	0.7966
ecoliCP-IM	1.0000	1.0000	1.0000
ecoliM	0.9175	0.8350	0.8350
ecoliMU	0.6810	0.3125	0.3516
ecoliOM	0.8514	0.6526	0.6960
ecommerce	0.2680	0.0096	0.0099
euthyroid	0.9207	0.8413	0.8415
fakenews	0.4572	-0.0820	0.0000
fbis-wc	0.6951	0.7266	0.7295
finance	0.7214	0.4413	0.4427
financial-risk	0.4764	0.5619	0.6028
flags	0.4538	0.6203	0.6284
forest	0.9069	0.8937	0.8983
gas	0.9961	0.9956	0.9956
gastrointestinal	0.6179	0.6643	0.7206
gender	0.4988	0.1831	0.1910
german	0.6488	0.2840	0.2964
gestures	0.8695	0.8231	0.8251
gina	0.8915	0.7812	0.7831
gisette	0.9332	0.8657	0.8663
glass	0.7398	0.7325	0.7397
glass-g2	0.8873	0.7500	0.7746
glassBWFP	0.9507	0.8966	0.9014
glassBWNFP	0.9472	0.8889	0.8944
glassContainers	1.0000	1.0000	1.0000
glassNW	0.9340	0.8591	0.8677
glassTableware	0.4884	0.0000	0.0000
GlaucomaM	0.7978	0.5824	0.5955
gli_85	1.0000	1.0000	1.0000
glioma	0.8333	0.7059	0.7500
glioma-grade	0.8845	0.7610	0.7689
green	0.6098	0.2105	0.2182
gsalc	1.0000	1.0000	1.0000
haberman	0.6323	0.2593	0.2638
hapt	0.7728	0.9264	0.9266
har	0.9910	0.9897	0.9897
harth10%	0.6124	0.8166	0.8205
Continued on next page			

Dataset	F1-macro	Kappa	MCC
health-activity	0.2175	0.0000	0.0000
heart	0.8064	0.6110	0.6128
heart-c	0.9330	0.8661	0.8661
heart-failure	0.9837	0.9672	0.9675
heart-quantum	0.9249	0.8387	0.8498
hepatitis	0.8544	0.6667	0.7071
higher	0.2264	0.1411	0.1750
hinselmann	0.4444	0.0000	0.0000
hitters	0.9373	0.8745	0.8745
hiv1-proteasa	0.7280	0.3780	0.4395
hiva	0.5545	0.0838	0.0973
horse	0.6086	0.3436	0.3592
hotel-reservartions	0.8905	0.7793	0.7810
hr	0.4633	0.0000	0.0000
ht-sensor	1.0000	1.0000	1.0000
htru2	0.9314	0.8578	0.8626
hypothyroid	0.7267	0.9220	0.9222
immuno-therapy	0.6786	0.3571	0.3571
ionosphere	0.9038	0.8059	0.8076
iris	1.0000	1.0000	1.0000
irish	1.0000	1.0000	1.0000
isolet	0.8857	0.8772	0.8775
jm1	0.6607	0.3185	0.3208
javowels	0.9602	0.9579	0.9580
kc1-class-level-numericdefect	0.3733	0.3500	0.4677
kc1-class-level-top5percentDF	0.4643	-0.0714	0.0000
kc2	0.7118	0.4235	0.4235
kdc-4007	0.5597	0.3707	0.4070
kddcup991%	0.9032	0.9942	1.0000
kidney	0.1778	0.0000	0.0000
kidney-disease	1.0000	1.0000	1.0000
la2s-wc	0.8070	0.7633	0.7705
labor	1.0000	1.0000	1.0000
leaf	0.6420	0.6901	0.7003
led24	0.6667	0.6045	0.6097
lenses	0.5714	0.5000	0.6124
letter	0.9510	0.9485	0.9486
linkage1%	0.9634	0.9266	0.9268
loan	0.9615	0.9214	0.9230
lrs	0.6315	0.7920	0.8002
lung_discrete	1.0000	1.0000	1.0000
lymphography	0.5520	0.6000	0.6181
lymphoma2	0.6027	0.6842	0.7120
machine-failure	0.9369	0.8705	0.8737
magic04	0.8505	0.6919	0.7007
malware	1.0000	1.0000	1.0000
mammography	0.8745	0.7490	0.7490
marketing	0.7681	0.5118	0.5324
mba	0.4611	0.3532	0.3698
mental-disorders	0.9270	0.8889	0.8972
messidor	0.6578	0.3020	0.3155
meter-A	0.8000	0.5294	0.6000
meter-B	1.0000	1.0000	1.0000
meter-C	1.0000	1.0000	1.0000
meter-D	0.8784	0.8448	0.8561
mfeat-fac	0.9706	0.9667	0.9668
mfeat-fou	0.7767	0.7500	0.7513
mfeat-kar	0.9393	0.9278	0.9286
Continued on next page			

Dataset	F1-macro	Kappa	MCC
mfeat-mor	0.6979	0.6944	0.7025
mfeat-pix	0.9709	0.9667	0.9669
mfeat-zer	0.7988	0.7722	0.7730
mice-prot	1.0000	1.0000	1.0000
milk	1.0000	1.0000	1.0000
mines	0.5812	0.4498	0.4563
mobile	0.9375	0.9324	0.9326
monks-1	1.0000	1.0000	1.0000
monks-3	0.9824	0.9642	0.9648
mushroom	1.0000	1.0000	1.0000
music	0.5235	0.3792	0.3811
MUT_ci300400a_cdk_ECFP2	0.8003	0.5950	0.6005
MUT_ci300400a_cdk_ECFP4	0.8175	0.6248	0.6351
MUT_ci300400a_cdk_ECFP6	0.7925	0.5827	0.5849
MUT_ci300400a_cdk_ESTATE	0.7614	0.5200	0.5228
MUT_ci300400a_cdk_EXTENDED	0.8442	0.6862	0.6884
MUT_ci300400a_cdk_FCFP2	0.8333	0.6632	0.6665
MUT_ci300400a_cdk_FCFP4	0.7801	0.5546	0.5603
MUT_ci300400a_cdk_FCFP6	0.7909	0.5706	0.5818
MUT_ci300400a_cdk_MACCS	0.8354	0.6700	0.6709
MUT_ci300400a_cdk_PUBCHEM	0.8572	0.7138	0.7144
MUT_ci300400a_cdk_STANDARD	0.8331	0.6654	0.6663
MUT_ci300400a_rdkit_descriptors	0.8340	0.6644	0.6680
myocardial	0.3102	0.3867	0.4911
naticusdroid	0.9688	0.9374	0.9375
nci9	0.7895	0.8000	0.8281
ncRNA10%	0.7022	0.8409	0.8328
neo	0.7566	0.4173	0.4996
new-thyroid	1.0000	1.0000	1.0000
new-thyroidT	1.0000	1.0000	1.0000
newspop	0.6657	0.3242	0.3313
NHANES_age_prediction	1.0000	1.0000	1.0000
nomao	0.9552	0.9096	0.9103
nursery	0.9228	0.9370	0.9383
obesity	0.9334	0.9225	0.9233
obs	1.0000	1.0000	1.0000
oh0-wc	0.8331	0.8056	0.8105
oh10-wc	0.7008	0.7149	0.7214
oh15-wc	0.8163	0.7749	0.7808
oh5-wc	0.8457	0.7873	0.7943
olive	0.9385	0.9343	0.9362
optdigits	0.9535	0.9466	0.9466
orlraws10P	1.0000	1.0000	1.0000
ozone1hr	0.4909	0.0000	0.0000
p53-mutants10%	0.4992	0.0000	0.0000
parkinson	0.9915	0.9828	0.9830
particle	0.9050	0.8096	0.8100
pc1	0.6986	0.3909	0.3956
pcmac	0.3618	-0.0307	0.0000
pediatric-leukemia	0.5607	0.6280	0.6472
pendigits	0.9889	0.9879	0.9879
period-10f	0.5950	0.1818	0.1890
persistence	0.8047	0.6076	0.6093
personalities	0.9564	0.9525	0.9417
pet-adoption	0.8804	0.7480	0.7604
phishing	0.9657	0.9312	0.9314
PhiUSIL10%	0.9996	0.9991	0.9991
phy	0.7090	0.4144	0.4180
Continued on next page			

Dataset	F1-macro	Kappa	MCC
pima	0.7174	0.4225	0.4342
pirvision	0.9895	0.9834	0.9834
placement	0.7795	0.5587	0.5589
plrx	0.4000	-0.1020	0.0000
polya	0.7489	0.4916	0.4976
popularity	0.4334	0.2615	0.2882
post-operative	0.5950	0.1818	0.1890
postures	0.9832	0.9793	0.9794
pred-tox_mutagen_ref-desc	0.6913	0.3824	0.3825
prestige	0.8889	0.8302	0.8462
primary-tumor	0.3489	0.4199	0.4221
processed	1.0000	1.0000	1.0000
profb	0.6559	0.3002	0.3107
promoters	0.9083	0.8000	0.8165
puc-rio	0.9868	0.9903	0.9903
pufs-1281%	0.5025	0.0050	0.0050
pufs-6410%	0.4988	-0.0022	0.0000
pulsar	0.9407	0.8785	0.8814
raisin	0.9115	0.8222	0.8230
rejafada	1.0000	1.0000	1.0000
relathe	0.9929	0.9858	0.9859
rice	0.9867	0.9733	0.9734
rocket	0.6946	0.3760	0.3892
RT_IOT2022	0.9879	0.9829	1.0000
satimage	0.8860	0.8751	0.8756
scadi	0.6984	0.6316	0.6860
schiller	0.8333	0.6087	0.6614
sclerosis	1.0000	1.0000	1.0000
secom	0.4834	0.0000	0.0000
secondary_mushroom	0.9997	0.9993	0.9993
seeds	0.9553	0.9286	0.9317
segment	0.9729	0.9646	0.9647
segmentation	0.8251	0.6493	0.6503
segmentO	1.0000	1.0000	1.0000
seismic	0.5751	0.0819	0.1169
sens-2-gram	0.6687	0.0675	0.1869
sens-3-gram	0.6196	0.0615	0.1412
sens-4-gram	0.5897	0.0557	0.1124
sensorless	0.9973	0.9970	0.9970
shoppers	0.8072	0.6140	0.6144
sick	0.8834	0.7369	0.7638
sirtuin6	1.0000	1.0000	1.0000
smarket	0.9921	0.9840	0.9841
smk_can_187	0.7389	0.4751	0.4778
smoking	0.8187	0.6179	0.6374
soil_pollution	0.1929	-0.0052	0.0000
solar-flare	0.7458	0.7346	0.7420
sonar	0.7185	0.4000	0.4364
soybean	1.0000	1.0000	1.0000
spam-detection	0.8671	0.7340	0.7341
spambase	0.9454	0.8907	0.8907
spect	0.6250	0.2500	0.2500
spectf	0.8956	0.7692	0.7906
spectrometer	0.4231	0.5102	0.5131
squash-unstored	1.0000	1.0000	1.0000
startup	1.0000	1.0000	1.0000
steel_industry	0.8504	0.8078	0.8079
stellar	0.9662	0.9473	0.9475
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Dataset	F1-macro	Kappa	MCC
stock	0.7804	0.5607	0.5608
stockb	1.0000	1.0000	1.0000
streaming	0.9313	0.8625	0.8625
stress	1.0000	1.0000	1.0000
student-depression	0.8090	0.6164	0.6181
student-habits	0.2192	0.0332	0.0382
student-lifestyle	0.4069	0.3796	0.3806
student-weekend	0.3190	0.1416	0.1529
student-workday	0.2655	0.0777	0.1982
studentap	0.5940	0.4091	0.4129
swarm_aligned	0.9981	0.9961	0.9961
swarm_flocking	0.9988	0.9975	0.9975
swarm_grouped	0.9996	0.9991	0.9991
tae	0.6082	0.4000	0.4027
telco-churn	0.8689	0.7375	0.7379
texture	0.9795	0.9759	0.9760
theorem	0.9511	0.9021	0.9023
thoracic	0.4598	0.0000	0.0000
Thyroid_Diff	0.9365	0.8648	0.8728
tis	0.8429	0.6652	0.6846
titanic	0.7714	0.5247	0.5418
tourist	0.5250	0.6364	0.6848
trains	1.0000	1.0000	1.0000
transfusion	0.5517	0.1033	0.1034
tuandromd	0.9825	0.9643	0.9649
turkish	0.7353	0.6333	0.6403
tvnews	0.9451	0.8968	0.8997
ur3_cobotops_grip	0.7331	0.2790	0.4026
ur3_cobotops_stop	0.6856	0.3106	0.3517
urban	0.8509	0.8074	0.8097
ustilago10%	0.4973	0.0000	0.0000
vehicle	0.7361	0.7087	0.7100
vote	0.9307	0.8605	0.8615
vowel	0.7126	0.6222	0.6348
wap-wc	0.5167	0.7086	0.7181
warpar10p	0.6557	0.6556	0.6736
warppie10p	1.0000	1.0000	1.0000
waveform	0.8325	0.7450	0.7488
weather-related	0.9821	0.9760	0.9762
weight-lift	0.9977	0.9971	0.9971
white-clover	0.5000	0.0000	0.0000
wifi-loc	0.9902	0.9867	0.9868
wilt	0.9160	0.8313	0.8320
wine	1.0000	1.0000	1.0000
winequality-red	0.3235	0.4465	0.4504
winequality-white	0.4594	0.4856	0.4895
winnipeg10%	0.9915	0.9864	0.9864
wisc.bc	0.9817	0.9627	0.9633
yale	0.7403	0.7333	0.7522
yeast	0.4519	0.4502	0.4559
yeastCYT-POX	0.9047	0.7897	0.8078
yeastEXC	0.7431	0.4861	0.4861
yeastME1	0.6958	0.3799	0.3883
yeastME2	0.7218	0.2410	0.3702
zip	0.9226	0.9204	0.9205

Table 61: Detailed results for Crazier OVO 5

Dataset	F1-macro	Kappa	MCC
abalone	0.1487	0.0802	0.0818
abalone19	0.4982	0.0000	0.0000
accelerometer	0.7137	0.2854	0.3783
ads	0.9482	0.8909	0.8963
adult	0.7868	0.5464	0.5724
advanced-iot	1.0000	1.0000	1.0000
AID_1431	0.4772	0.0000	0.0000
AID_1431_KlekotaRothFingerprinter	0.4772	0.0000	0.0000
AID_1431_MACCSFingerprinter	0.4772	0.0000	0.0000
AID_1878	0.4474	-0.0184	0.0000
AID_602330	0.4866	-0.0169	0.0000
AID_652128	0.3118	0.0000	0.0000
AID1284red	0.7322	0.4419	0.4601
AID1608Morered	0.4798	-0.0173	0.0000
AID1608red	0.4798	-0.0300	0.0000
AID362red	0.4965	0.0000	0.0000
AID373AID439red	0.4996	-0.0003	0.0000
AID373red	0.5578	0.0987	0.1078
AID456red	0.4990	-0.0015	0.0000
AID604	0.6782	0.1172	0.2384
AID604AID644_AllRed	0.4992	-0.0013	0.0000
AID687AID721red	0.4993	-0.0009	0.0000
AID687red	0.4988	-0.0023	0.0000
AID688red	0.4972	-0.0031	0.0000
AID721morered	0.4375	0.0000	0.0000
AID721red	0.4375	0.0000	0.0000
AID746AID1284red	0.4992	-0.0014	0.0000
AID746red	0.5669	0.1291	0.1318
aids	0.8528	0.7055	0.7056
air_pollution	0.0826	0.0000	0.0000
alcohol	0.5778	0.6461	0.6777
all-aml	1.0000	1.0000	1.0000
anneal	0.9872	0.9766	0.9769
antivirus	1.0000	1.0000	1.0000
anuran-f-b	1.0000	1.0000	1.0000
anxiety	0.1136	-0.0052	0.0000
apple-quality	0.8169	0.6300	0.6338
aps-failure	0.8319	0.6341	0.6589
arabidopsis1%	0.4980	0.0000	0.0000
arcene	0.7292	0.4231	0.4583
arrhythmia	0.4209	0.3878	0.4918
auction	0.9777	0.9544	0.9554
audiology	0.6654	0.7848	0.7908
audit-risk	1.0000	1.0000	1.0000
autism-adolescent	1.0000	1.0000	1.0000
autism-adult	1.0000	1.0000	1.0000
autism-child	1.0000	1.0000	1.0000
autos	0.9064	0.8667	0.8758
avila	0.9927	0.9981	0.9981
balance	0.5691	0.6378	0.6599
bank	0.7626	0.5251	0.5252
bankruptcy	1.0000	1.0000	1.0000
bio	0.8586	0.6748	0.7110
biodeg	0.8675	0.7337	0.7350
biomed	1.0000	1.0000	1.0000
Continued on next page			

Dataset	F1-macro	Kappa	MCC
bitcoin10%	0.2636	0.0847	0.1597
body-perf	0.7175	0.6189	0.6232
brain-tumor	0.5067	0.0133	0.0133
breast-cancer	0.6242	0.2432	0.2477
breast-cancer-ma	0.6309	0.2414	0.2609
breast-tissue	0.8470	0.7800	0.7879
bridges	0.8192	0.8485	0.8641
bub12at310k-hg16-17	0.7024	0.3835	0.3995
cad	1.0000	1.0000	1.0000
cancer	1.0000	1.0000	1.0000
cancer-uae	0.2998	-0.0426	0.0000
car-insurance	0.8162	0.6302	0.6323
cardiotocography-nsp	0.8658	0.7783	0.7844
cardiovascular	0.7306	0.4577	0.4612
cargo2k	1.0000	1.0000	1.0000
cars	0.8096	0.7324	0.7354
ccds10%	0.6153	0.0628	0.1339
cdc_diabetes	0.4528	0.3216	0.3345
census	0.7592	0.5014	0.4991
cervical-B	0.7962	0.5764	0.5897
cervical-H	0.8689	0.7378	0.7378
cervical-S	0.8481	0.6446	0.6896
children-anemia	0.9167	0.9057	0.9068
chrom19	0.9382	0.8901	0.8929
chrom211%	0.4998	0.0000	0.0000
churn	0.7622	0.5207	0.5240
cjs	1.0000	1.0000	1.0000
ckd	1.0000	1.0000	1.0000
clave	0.6877	0.6547	0.6549
cll_sub_111	0.7222	0.4545	0.4545
cmc	0.5505	0.3347	0.3352
cnae-9	0.9560	0.9479	0.9483
codon_usage	0.7085	0.8435	0.8458
coil20	1.0000	1.0000	1.0000
college	0.9172	0.8338	0.8343
collins	1.0000	1.0000	1.0000
colon-tumor	0.8537	0.6667	0.7071
colposcopies-1	0.7797	0.4663	0.5514
colposcopies-2	0.7264	0.3176	0.4345
colposcopies-4	0.7810	0.4649	0.5504
colposcopies-5	0.4423	-0.0610	0.0000
colposcopies-c	0.8054	0.5323	0.6022
column-2c	0.9342	0.8597	0.8683
column-3c	0.7853	0.7359	0.7400
connect-4	0.7609	0.7298	0.7299
coupon	0.7312	0.4613	0.4624
covtype	0.9331	0.9218	0.9137
covtypeCD	0.9788	0.9576	0.9577
covtypeT	0.9281	0.8544	0.8562
crabs	0.9083	0.8667	0.8725
creditcard_trans	0.8576	0.7055	0.7139
crowdsourced	0.8165	0.8615	0.8631
cryotherapy	0.8163	0.5714	0.6325
cultivars	0.5459	0.5806	0.5866
cybersecurity	0.1787	0.0114	0.0114
cyclopentane	0.6181	0.2241	0.2358
cylinder-bands	0.7761	0.5506	0.5522
datatrieve	0.4800	0.0000	0.0000
Continued on next page			

Dataset	F1-macro	Kappa	MCC
dating	0.1000	0.0020	0.0020
dbworld	1.0000	1.0000	1.0000
default	0.7124	0.4191	0.4241
dementia	1.0000	1.0000	1.0000
deposit	0.7467	0.4924	0.4932
depressed	0.4479	-0.0387	0.0000
dermatology	0.9429	0.9325	0.9325
desharnais	0.3901	0.1579	0.1627
df_final	0.7933	0.6322	0.6839
DIA	0.7692	0.4286	0.5222
diabetes-100k	0.8930	0.7612	0.7839
diagnosis	1.0000	1.0000	1.0000
diamonds	1.0000	1.0000	1.0000
diamonds_all	0.7432	0.6566	0.6591
dishonest	1.0000	1.0000	1.0000
dlbcl-nih	0.6923	0.2258	0.3568
dlbcl-stanford	0.8333	0.6154	0.6667
dna0.1%	0.4993	0.0000	0.0000
dota2	0.5696	0.1371	0.1392
drebin	0.9833	0.9666	0.9666
dropout	0.6899	0.6015	0.6081
ecoli	0.7489	0.8371	0.8391
ecoliCP-IM	1.0000	1.0000	1.0000
ecoliM	0.9175	0.8350	0.8350
ecoliMU	0.7024	0.3678	0.3975
ecoliOM	0.8514	0.6526	0.6960
ecommerce	0.2620	0.0125	0.0126
euthyroid	0.9267	0.8527	0.8533
fakenews	0.4575	-0.0851	0.0000
fbis-wc	0.7157	0.7453	0.7478
finance	0.7214	0.4369	0.4427
financial-risk	0.4721	0.5568	0.5966
flags	0.4538	0.6203	0.6284
forest	0.9069	0.8937	0.8983
gas	0.9970	0.9965	0.9965
gastrointestinal	0.6179	0.6643	0.7206
gender	0.4987	0.1830	0.1922
german	0.6445	0.2629	0.2859
gestures	0.8801	0.8391	0.8397
gina	0.9053	0.8099	0.8105
gisette	0.9329	0.8657	0.8658
glass	0.7398	0.7325	0.7397
glass-g2	0.9392	0.8710	0.8783
glassBWFP	0.9032	0.7879	0.8062
glassBWNFP	0.9472	0.8889	0.8944
glassContainers	1.0000	1.0000	1.0000
glassNW	0.9340	0.8591	0.8677
glassTableware	0.4884	0.0000	0.0000
GlaucomaM	0.7978	0.5824	0.5955
gli_85	1.0000	1.0000	1.0000
glioma	0.8333	0.7059	0.7500
glioma-grade	0.8845	0.7610	0.7689
green	0.6098	0.2105	0.2182
gsalc	1.0000	1.0000	1.0000
haberman	0.6323	0.2593	0.2638
hapt	0.8211	0.9232	0.9234
har	0.9933	0.9923	0.9923
harth10%	0.5954	0.8052	0.8047
Continued on next page			

Dataset	F1-macro	Kappa	MCC
health-activity	0.2175	0.0000	0.0000
heart	0.7666	0.5263	0.5330
heart-c	0.9009	0.8000	0.8018
heart-failure	0.9837	0.9672	0.9675
heart-quantum	0.9249	0.8387	0.8498
hepatitis	0.7266	0.4444	0.4523
higher	0.2287	0.1411	0.1630
hinselmann	0.4444	0.0000	0.0000
hitters	0.9373	0.8745	0.8745
hiv1-proteasa	0.7367	0.4002	0.4589
hiva	0.5844	0.1005	0.1361
horse	0.6329	0.3802	0.4096
hotel-reservartions	0.8927	0.7850	0.7854
hr	0.4633	0.0000	0.0000
ht-sensor	0.9941	0.9957	1.0000
htru2	0.9370	0.8699	0.8738
hypothyroid	0.7320	0.9368	0.9368
immuno-therapy	0.8333	0.6087	0.6614
ionosphere	0.9038	0.8059	0.8076
iris	1.0000	1.0000	1.0000
irish	1.0000	1.0000	1.0000
isolet	0.8856	0.8785	0.8789
jm1	0.6602	0.3101	0.3184
javowels	0.9598	0.9579	0.9580
kc1-class-level-numericdefect	0.3733	0.3500	0.4677
kc1-class-level-top5percentDF	0.4643	-0.0714	0.0000
kc2	0.7118	0.4235	0.4235
kdc-4007	0.5684	0.3792	0.4245
kddcup991%	0.8866	0.9835	1.0000
kidney	0.1778	0.0000	0.0000
kidney-disease	1.0000	1.0000	1.0000
la2s-wc	0.8002	0.7539	0.7625
labor	1.0000	1.0000	1.0000
leaf	0.6399	0.6901	0.6997
led24	0.6847	0.6045	0.6114
lenses	0.5714	0.5000	0.6124
letter	0.9500	0.9475	0.9475
linkage1%	0.9634	0.9266	0.9268
loan	0.9638	0.9262	0.9276
lrs	0.6315	0.7920	0.8002
lung_discrete	0.6650	0.6735	0.6881
lymphography	0.5520	0.6000	0.6181
lymphoma2	0.6027	0.6842	0.7120
machine-failure	0.9251	0.8483	0.8501
magic04	0.8533	0.6995	0.7064
malware	1.0000	1.0000	1.0000
mammography	0.8745	0.7490	0.7490
marketing	0.7644	0.4806	0.5205
mba	0.4450	0.3261	0.3266
mental-disorders	0.9270	0.8889	0.8972
messidor	0.6266	0.2513	0.2532
meter-A	0.8000	0.5294	0.6000
meter-B	1.0000	1.0000	1.0000
meter-C	1.0000	1.0000	1.0000
meter-D	0.8784	0.8448	0.8561
mfeat-fac	0.9656	0.9611	0.9613
mfeat-fou	0.7865	0.7611	0.7626
mfeat-kar	0.9435	0.9333	0.9340
Continued on next page			

Dataset	F1-macro	Kappa	MCC
mfeat-mor	0.7028	0.7000	0.7082
mfeat-pix	0.9709	0.9667	0.9669
mfeat-zer	0.7732	0.7444	0.7447
mice-prot	1.0000	1.0000	1.0000
milk	1.0000	1.0000	1.0000
mines	0.6008	0.4860	0.4902
mobile	0.9444	0.9395	0.9397
monks-1	1.0000	1.0000	1.0000
monks-3	0.9824	0.9642	0.9648
mushroom	1.0000	1.0000	1.0000
music	0.5295	0.3893	0.3909
MUT_ci300400a_cdk_ECFP2	0.8033	0.6051	0.6065
MUT_ci300400a_cdk_ECFP4	0.8190	0.6303	0.6379
MUT_ci300400a_cdk_ECFP6	0.7975	0.5950	0.5951
MUT_ci300400a_cdk_ESTATE	0.7601	0.5192	0.5202
MUT_ci300400a_cdk_EXTENDED	0.8352	0.6704	0.6705
MUT_ci300400a_cdk_FCFP2	0.8325	0.6636	0.6650
MUT_ci300400a_cdk_FCFP4	0.7900	0.5775	0.5800
MUT_ci300400a_cdk_FCFP6	0.7884	0.5685	0.5767
MUT_ci300400a_cdk_MACCS	0.8305	0.6609	0.6610
MUT_ci300400a_cdk_PUBCHEM	0.8619	0.7239	0.7239
MUT_ci300400a_cdk_STANDARD	0.8300	0.6600	0.6600
MUT_ci300400a_rdkit_descriptors	0.8370	0.6726	0.6739
myocardial	0.3102	0.3867	0.4911
naticusdroid	0.9643	0.9285	0.9287
nci9	0.7895	0.8000	0.8281
ncRNA10%	0.7070	0.8277	0.8252
neo	0.7569	0.4231	0.5010
new-thyroid	1.0000	1.0000	1.0000
new-thyroidT	1.0000	1.0000	1.0000
newspop	0.6742	0.3483	0.3483
NHANES_age_prediction	1.0000	1.0000	1.0000
nomao	0.9531	0.9060	0.9062
nursery	0.9479	0.9492	0.9500
obesity	0.9429	0.9336	0.9342
obs	1.0000	1.0000	1.0000
oh0-wc	0.8391	0.8054	0.8112
oh10-wc	0.6892	0.7141	0.7218
oh15-wc	0.7595	0.7111	0.7192
oh5-wc	0.8212	0.7615	0.7698
olive	0.9385	0.9343	0.9362
optdigits	0.9567	0.9505	0.9506
orlraws10P	1.0000	1.0000	1.0000
ozone1hr	0.4909	0.0000	0.0000
p53-mutants10%	0.4992	0.0000	0.0000
parkinson	0.9915	0.9828	0.9830
particle	0.9061	0.8120	0.8122
pc1	0.7306	0.4612	0.4612
pcmac	0.3639	-0.0205	0.0000
pediatric-leukemia	0.6050	0.7018	0.7369
pendigits	0.9898	0.9889	0.9889
period-10f	0.5000	0.0000	0.0000
persistence	0.7947	0.5866	0.5893
personalities	0.9547	0.9542	0.9439
pet-adoption	0.8937	0.7701	0.7870
phishing	0.9657	0.9312	0.9314
PhiUSIL10%	0.9996	0.9991	0.9991
phy	0.7088	0.4173	0.4177
Continued on next page			

Dataset	F1-macro	Kappa	MCC
pima	0.7023	0.3899	0.4040
pirvision	0.9889	0.9814	0.9814
placement	0.7875	0.5747	0.5749
plrx	0.4000	-0.1020	0.0000
polya	0.7318	0.4419	0.4622
popularity	0.4284	0.2360	0.2721
post-operative	0.4000	0.0000	0.0000
postures	0.9849	0.9814	0.9814
pred-tox_mutagen_ref-desc	0.7059	0.4118	0.4118
prestige	0.8889	0.8302	0.8462
primary-tumor	0.3502	0.4193	0.4224
processed	1.0000	1.0000	1.0000
profb	0.6511	0.2820	0.2999
promoters	0.7917	0.5833	0.5833
puc-rio	0.9887	0.9914	0.9914
pufs-1281%	0.5025	0.0050	0.0050
pufs-6410%	0.5036	0.0072	0.0073
pulsar	0.9433	0.8840	0.8866
raisin	0.9115	0.8222	0.8230
rejafada	1.0000	1.0000	1.0000
relathe	0.9929	0.9858	0.9859
rice	0.9856	0.9711	0.9711
rocket	0.7167	0.4311	0.4334
RT_IOT2022	0.9826	1.0000	0.9849
satimage	0.8825	0.8732	0.8736
scadi	0.6984	0.6316	0.6860
schiller	0.8333	0.6087	0.6614
sclerosis	1.0000	1.0000	1.0000
secom	0.4834	0.0000	0.0000
secondary_mushroom	0.9997	0.9993	0.9993
seeds	0.9553	0.9286	0.9317
segment	0.9739	0.9646	0.9650
segmentation	0.8392	0.6783	0.6784
segmentO	0.9916	0.9830	0.9831
seismic	0.6083	0.0927	0.1547
sens-2-gram	0.6687	0.0675	0.1869
sens-3-gram	0.6196	0.0615	0.1412
sens-4-gram	0.5897	0.0557	0.1124
sensorless	0.9973	0.9970	0.9970
shoppers	0.8144	0.6285	0.6288
sick	0.8960	0.7685	0.7900
sirtuin6	1.0000	1.0000	1.0000
smarket	0.9921	0.9840	0.9841
smk_can_187	0.7889	0.5778	0.5778
smoking	0.8215	0.6288	0.6429
soil_pollution	0.2082	0.0116	0.0117
solar-flare	0.7458	0.7346	0.7420
sonar	0.6269	0.2000	0.2500
soybean	1.0000	1.0000	1.0000
spam-detection	0.8671	0.7340	0.7341
spambase	0.9499	0.8994	0.8998
spect	0.6250	0.2500	0.2500
spectf	0.8956	0.7692	0.7906
spectrometer	0.4551	0.5310	0.5342
squash-unstored	1.0000	1.0000	1.0000
startup	1.0000	1.0000	1.0000
steel_industry	0.8626	0.8230	0.8230
stellar	0.9672	0.9488	0.9490
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Dataset	F1-macro	Kappa	MCC
stock	0.7976	0.5950	0.5951
stockb	1.0000	1.0000	1.0000
streaming	0.9374	0.8742	0.8748
stress	1.0000	1.0000	1.0000
student-depression	0.8234	0.6456	0.6468
student-habits	0.1611	-0.0304	0.0000
student-lifestyle	0.3491	0.3678	0.3697
student-weekend	0.3637	0.2008	0.2226
student-workday	0.2655	0.0777	0.1982
studentap	0.5940	0.4091	0.4129
swarm_aligned	0.9990	0.9981	0.9981
swarm_flocking	0.9988	0.9975	0.9975
swarm_grouped	0.9991	0.9982	0.9982
tae	0.6082	0.4000	0.4027
telco-churn	0.8703	0.7398	0.7405
texture	0.9828	0.9800	0.9800
theorem	0.9580	0.9153	0.9160
thoracic	0.4598	0.0000	0.0000
Thyroid_Diff	0.9365	0.8648	0.8728
tis	0.8352	0.6366	0.6680
titanic	0.7714	0.5247	0.5418
tourist	0.5250	0.6364	0.6848
trains	1.0000	1.0000	1.0000
transfusion	0.6087	0.2126	0.2168
tuandromd	0.9927	0.9854	0.9854
turkish	0.7353	0.6333	0.6403
tvnews	0.9246	0.8491	0.8491
ur3_cobotops_grip	0.7331	0.2790	0.4026
ur3_cobotops_stop	0.6652	0.2643	0.3071
urban	0.8665	0.8252	0.8274
ustilago10%	0.4973	0.0000	0.0000
vehicle	0.7454	0.7103	0.7127
vote	0.9307	0.8605	0.8615
vowel	0.6983	0.6222	0.6322
wap-wc	0.5037	0.6867	0.6973
warpar10p	0.6557	0.6556	0.6736
warppie10p	1.0000	1.0000	1.0000
waveform	0.8329	0.7481	0.7499
weather-related	0.9803	0.9739	0.9740
weight-lift	0.9966	0.9958	0.9958
white-clover	0.3750	-0.2000	0.0000
wifi-loc	0.9902	0.9867	0.9868
wilt	0.9092	0.8174	0.8183
wine	1.0000	1.0000	1.0000
winequality-red	0.3338	0.4519	0.4573
winequality-white	0.4458	0.4926	0.4983
winnipeg10%	0.9912	0.9860	0.9860
wisc.bc	0.9817	0.9627	0.9633
yale	0.7986	0.7992	0.8094
yeast	0.4477	0.4513	0.4560
yeastCYT-POX	0.9047	0.7897	0.8078
yeastEXC	0.7431	0.4861	0.4861
yeastME1	0.6958	0.3799	0.3883
yeastME2	0.7218	0.2410	0.3702
zip	0.9228	0.9204	0.9205

3.2 Noise results at 10% ratio

Table 62: Detailed results for C5.0 10

Dataset	F1-macro	Kappa	MCC
abalone	0.1081	0.1008	0.1014
abalone19	0.4982	0.0000	0.0000
accelerometer	0.4955	0.0000	0.0000
ads	0.9345	0.8637	0.8688
adult	0.8020	0.5950	0.6033
advanced-iot	1.0000	1.0000	1.0000
AID_1431	0.4772	0.0000	0.0000
AID_1431_KlekotaRothFingerprinter	0.4772	0.0000	0.0000
AID_1431_MACCSFingerprinter	0.4772	0.0000	0.0000
AID_1878	0.5274	0.0458	0.0515
AID_602330	0.4894	0.0000	0.0000
AID_652128	0.3118	0.0000	0.0000
AID1284red	0.4627	0.0000	0.0000
AID1608Morered	0.4824	0.0000	0.0000
AID1608red	0.4850	0.0000	0.0000
AID362red	0.4965	0.0000	0.0000
AID373AID439red	0.5000	0.0000	0.0000
AID373red	0.4997	0.0000	0.0000
AID456red	0.4992	0.0000	0.0000
AID604	0.4991	0.0000	0.0000
AID604AID644_AllRed	0.4997	0.0000	0.0000
AID687AID721red	0.4998	0.0000	0.0000
AID687red	0.4992	0.0000	0.0000
AID688red	0.4977	0.0000	0.0000
AID721morered	0.4375	0.0000	0.0000
AID721red	0.4375	0.0000	0.0000
AID746AID1284red	0.4997	0.0000	0.0000
AID746red	0.4985	0.0000	0.0000
aids	0.8307	0.6604	0.6613
air_pollution	0.1649	0.0139	0.0177
alcohol	0.5384	0.6580	0.6637
all-aml	0.8182	0.5714	0.6325
anneal	0.9537	0.9076	0.9096
antivirus	0.9599	0.9165	0.9197
anuran-f-b	0.9562	0.9084	0.9122
anxiety	0.0716	-0.0524	0.0000
apple-quality	0.8356	0.6700	0.6712
aps-failure	0.8607	0.7081	0.7197
arabidopsis1%	0.4980	0.0000	0.0000
arcene	0.6184	0.2222	0.2357
arrhythmia	0.6452	0.6860	0.6893
auction	0.9664	0.9305	0.9327
audiology	0.9658	0.9472	0.9495
audit-risk	1.0000	1.0000	1.0000
autism-adolescent	1.0000	1.0000	1.0000
autism-adult	1.0000	1.0000	1.0000
autism-child	1.0000	1.0000	1.0000
autos	0.8607	0.8058	0.8137
avila	0.9662	0.9781	0.9782
balance	0.6444	0.8787	0.8852
bank	0.7403	0.4700	0.4785
bankruptcy	0.9593	0.9153	0.9186
bio	0.8733	0.7193	0.7432
biodeg	0.8470	0.6927	0.6940
biomed	1.0000	1.0000	1.0000
Continued on next page			

Dataset	F1-macro	Kappa	MCC
bitcoin10%	0.1506	0.0662	0.1584
body-perf	0.7301	0.6398	0.6426
brain-tumor	0.4894	-0.0200	0.0000
breast-cancer	0.5913	0.1818	0.1826
breast-cancer-ma	0.3529	0.0000	0.0000
breast-tissue	0.6061	0.6700	0.6981
bridges	0.6316	0.4872	0.5143
bub12at310k-hg16-17	0.6850	0.3093	0.3523
cad	1.0000	1.0000	1.0000
cancer	0.9841	0.9677	0.9682
cancer-uae	0.2201	0.0000	0.0000
car-insurance	0.8229	0.6455	0.6457
cardiotocography-nsp	0.8301	0.7622	0.7640
cardiovascular	0.7340	0.4672	0.4680
cargo2k	1.0000	1.0000	1.0000
cars	0.6677	0.5628	0.5679
ccds10%	0.4902	0.0000	0.0000
cdc_diabetes	0.4230	0.1914	0.2426
census	0.4835	0.0000	0.0000
cervical-B	0.7273	0.4173	0.4455
cervical-H	0.7378	0.4756	0.4756
cervical-S	0.8890	0.7514	0.7758
children-anemia	0.9329	0.9093	0.9103
chrom19	0.9158	0.8160	0.8302
chrom211%	0.4998	0.0000	0.0000
churn	0.7271	0.4279	0.4501
cjs	1.0000	1.0000	1.0000
ckd	1.0000	1.0000	1.0000
clave	0.6787	0.7075	0.7113
cll_sub_111	0.6667	0.3333	0.3371
cmc	0.5193	0.2721	0.2764
cnae-9	0.9363	0.9271	0.9274
codon_usage	0.7830	0.9030	0.9031
coil20	0.9803	0.9781	0.9782
college	0.9105	0.8146	0.8209
collins	0.9610	0.9560	0.9568
colon-tumor	0.2500	0.0000	0.0000
colposcopies-1	0.5635	0.1256	0.1270
colposcopies-2	0.5770	0.1493	0.1535
colposcopies-4	0.6284	0.2516	0.2561
colposcopies-5	0.4528	0.0000	0.0000
colposcopies-c	0.6234	0.2468	0.2468
column-2c	0.8524	0.7048	0.7048
column-3c	0.7333	0.6810	0.6898
connect-4	0.6988	0.5143	0.5695
coupon	0.7212	0.4421	0.4425
covtype	0.0763	0.0000	0.0000
covtypeCD	0.9650	0.9300	0.9300
covtypeT	0.9295	0.8578	0.8590
crabs	0.8521	0.8000	0.8027
creditcard_trans	0.8527	0.6972	0.7041
crowdsourced	0.8326	0.8593	0.8596
cryotherapy	0.5500	0.1000	0.1000
cultivars	0.3716	0.4194	0.4250
cybersecurity	0.1589	-0.0096	0.0000
cyclopentane	0.7403	0.4793	0.4807
cylinder-bands	0.7596	0.5159	0.5191
datatrieve	0.4800	0.0000	0.0000

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Dataset	F1-macro	Kappa	MCC
dating	0.1049	0.0055	0.0055
dbworld	1.0000	1.0000	1.0000
default	0.7121	0.3985	0.4201
dementia	1.0000	1.0000	1.0000
deposit	0.7451	0.4783	0.4881
depressed	0.4542	0.0000	0.0000
dermatology	0.9742	0.9663	0.9672
desharnais	0.3889	0.0476	0.0529
df_final	0.7576	0.6049	0.6436
DIA	0.7408	0.4762	0.4811
diabetes-100k	0.8930	0.7612	0.7839
diagnosis	1.0000	1.0000	1.0000
diamonds	1.0000	1.0000	1.0000
diamonds_all	0.7892	0.6978	0.6995
dishonest	0.9283	0.8462	0.8563
dlbcl-nih	0.5218	0.0435	0.0436
dlbcl-stanford	0.7059	0.2857	0.4082
dna0.1%	0.4993	0.0000	0.0000
dota2	0.5789	0.1553	0.1578
drebin	0.9812	0.9623	0.9623
dropout	0.6718	0.5840	0.5885
ecoli	0.7004	0.7922	0.7964
ecoliCP-IM	1.0000	1.0000	1.0000
ecoliM	0.9586	0.9138	0.9172
ecoliMU	0.4677	-0.0476	0.0000
ecoliOM	0.8514	0.6526	0.6960
ecommerce	0.2625	0.0128	0.0129
euthyroid	0.8960	0.7914	0.7919
fakenews	0.3355	0.0000	0.0000
fbis-wc	0.7447	0.7920	0.7966
finance	0.3544	0.0000	0.0000
financial-risk	0.9097	0.9030	0.9033
flags	0.5684	0.6285	0.6445
forest	0.8256	0.7610	0.7677
gas	0.9937	0.9930	0.9930
gastrointestinal	0.7955	0.7019	0.7063
gender	0.5227	0.1840	0.1916
german	0.6856	0.3510	0.3695
gestures	0.9230	0.8973	0.8975
gina	0.9510	0.9020	0.9020
gisette	0.9529	0.9057	0.9057
glass	0.6997	0.6216	0.6333
glass-g2	0.7960	0.5862	0.5919
glassBWFP	0.7419	0.4560	0.4824
glassBWNFP	0.8355	0.6667	0.6708
glassContainers	1.0000	1.0000	1.0000
glassNW	0.9340	0.8591	0.8677
glassTableware	1.0000	1.0000	1.0000
GlaucomaM	0.6292	0.2570	0.2584
gli_85	0.2000	0.0000	0.0000
glioma	0.8333	0.7059	0.7500
glioma-grade	0.8707	0.7360	0.7414
green	0.7619	0.4118	0.5092
gsalc	0.6454	0.4783	0.5078
haberman	0.4231	0.0000	0.0000
hapt	0.8599	0.9460	0.9460
har	0.9851	0.9820	0.9820
harth10%	0.0096	0.0000	0.0000
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Dataset	F1-macro	Kappa	MCC
health-activity	0.2850	0.0822	0.1130
heart	0.5952	0.1615	0.1869
heart-c	0.8683	0.7297	0.7365
heart-failure	0.9721	0.9435	0.9442
heart-quantum	0.9423	0.8780	0.8847
hepatitis	0.8929	0.7619	0.7845
higher	0.3037	0.1463	0.1501
hinselmann	0.3750	-0.2500	0.0000
hitters	0.9373	0.8745	0.8745
hiv1-proteasa	0.8185	0.6245	0.6358
hiva	0.4910	0.0000	0.0000
horse	0.5468	0.2613	0.2670
hotel-reservartions	0.8802	0.7593	0.7603
hr	0.4633	0.0000	0.0000
ht-sensor	0.1650	0.0000	0.0000
htru2	0.9301	0.8580	0.8601
hypothyroid	0.6940	0.9164	0.9185
immuno-therapy	0.8784	0.7273	0.7559
ionosphere	0.9671	0.9320	0.9342
iris	0.9333	0.8993	0.9054
irish	0.9800	0.9592	0.9600
isolet	0.8834	0.8745	0.8748
jm1	0.6420	0.2666	0.2802
javowels	0.9501	0.9454	0.9454
kc1-class-level-numericdefect	0.1524	-0.0833	0.0000
kc1-class-level-top5percentDF	0.4828	0.0000	0.0000
kc2	0.7165	0.4236	0.4317
kdc-4007	0.0345	0.0000	0.0000
kddcup991%	0.7898	0.9945	0.9945
kidney	0.1778	0.0000	0.0000
kidney-disease	0.9467	0.8933	0.8933
la2s-wc	0.8581	0.8323	0.8336
labor	1.0000	1.0000	1.0000
leaf	0.7195	0.7523	0.7606
led24	0.5204	0.4901	0.5016
lenses	0.1667	0.0000	0.0000
letter	0.9405	0.9381	0.9382
linkage1%	0.9418	0.8833	0.8835
loan	0.9875	0.9750	0.9751
lrs	0.7996	0.7659	0.7704
lung_discrete	0.6462	0.6800	0.6940
lymphography	0.4934	0.4510	0.4560
lymphoma2	0.7895	0.8500	0.8645
machine-failure	0.8904	0.7809	0.7809
magic04	0.8460	0.6858	0.6918
malware	1.0000	1.0000	1.0000
mammography	0.8556	0.7087	0.7112
marketing	0.7127	0.3703	0.4130
mba	0.3041	0.0000	0.0000
mental-disorders	0.9270	0.8889	0.8972
messidor	0.5102	0.0191	0.0203
meter-A	0.8873	0.7500	0.7746
meter-B	0.9167	0.8302	0.8462
meter-C	0.8873	0.8500	0.8644
meter-D	0.7417	0.6936	0.6966
mfeat-fac	0.9563	0.9500	0.9503
mfeat-fou	0.7744	0.7556	0.7561
mfeat-kar	0.9218	0.9111	0.9115
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Dataset	F1-macro	Kappa	MCC
mfeat-mor	0.6995	0.6722	0.6731
mfeat-pix	0.9378	0.9278	0.9286
mfeat-zer	0.7690	0.7444	0.7446
mice-prot	1.0000	1.0000	1.0000
milk	1.0000	1.0000	1.0000
mines	0.5226	0.4438	0.4473
mobile	0.8760	0.8683	0.8686
monks-1	1.0000	1.0000	1.0000
monks-3	0.9824	0.9642	0.9648
mushroom	0.9988	0.9975	0.9975
music	0.5250	0.3971	0.3991
MUT_ci300400a_cdk_ECFP2	0.7748	0.5476	0.5495
MUT_ci300400a_cdk_ECFP4	0.7769	0.5533	0.5538
MUT_ci300400a_cdk_ECFP6	0.7547	0.5004	0.5092
MUT_ci300400a_cdk_ESTATE	0.7154	0.4202	0.4305
MUT_ci300400a_cdk_EXTENDED	0.7808	0.5559	0.5615
MUT_ci300400a_cdk_FCFP2	0.7815	0.5624	0.5631
MUT_ci300400a_cdk_FCFP4	0.7561	0.5108	0.5122
MUT_ci300400a_cdk_FCFP6	0.7479	0.4958	0.4958
MUT_ci300400a_cdk_MACCS	0.7725	0.5448	0.5450
MUT_ci300400a_cdk_PUBCHEM	0.8163	0.6299	0.6325
MUT_ci300400a_cdk_STANDARD	0.7925	0.5833	0.5851
MUT_ci300400a_rdkit_descriptors	0.8163	0.6323	0.6325
myocardial	0.3102	0.3867	0.4911
naticusdroid	0.9718	0.9436	0.9436
nci9	0.3793	0.4000	0.4671
ncRNA10%	0.6511	0.8169	0.8190
neo	0.6799	0.1879	0.2931
new-thyroid	0.9089	0.8108	0.8292
new-thyroidT	0.8981	0.7742	0.7947
newspop	0.6625	0.3238	0.3251
NHANES_age_prediction	1.0000	1.0000	1.0000
nomao	0.9516	0.9032	0.9032
nursery	0.9970	0.9943	0.9943
obesity	0.9420	0.9336	0.9340
obs	0.9872	0.9727	0.9732
oh0-wc	0.9311	0.9092	0.9103
oh10-wc	0.7178	0.7060	0.7086
oh15-wc	0.8416	0.8136	0.8164
oh5-wc	0.8238	0.7643	0.7736
olive	0.9298	0.9343	0.9355
optdigits	0.9566	0.9486	0.9489
orlraws10P	0.6741	0.6667	0.6742
ozone1hr	0.4909	0.0000	0.0000
p53-mutants10%	0.4992	0.0000	0.0000
parkinson	0.9828	0.9655	0.9655
particle	0.9184	0.8369	0.8369
pc1	0.5907	0.1483	0.1684
pcmac	0.3681	0.0000	0.0000
pediatric-leukemia	0.8325	0.7473	0.7490
pendigits	0.9787	0.9767	0.9768
period-10f	0.7500	0.5000	0.5000
persistence	0.7883	0.5739	0.5766
personalities	0.9596	0.9568	0.9568
pet-adoption	0.9316	0.8611	0.8632
phishing	0.9399	0.8797	0.8798
PhiUSIL10%	0.9983	0.9965	0.9965
phy	0.7333	0.4647	0.4667
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Dataset	F1-macro	Kappa	MCC
pima	0.7647	0.5292	0.5294
pirvision	0.9853	0.9732	0.9732
placement	0.7974	0.5882	0.5947
plrx	0.4194	0.0000	0.0000
polya	0.7222	0.4373	0.4440
popularity	0.4229	0.2386	0.2601
post-operative	0.4000	0.0000	0.0000
postures	0.9911	0.9890	0.9890
pred-tox_mutagen_ref-desc	0.6068	0.2059	0.2135
prestige	0.8730	0.8235	0.8407
primary-tumor	0.2907	0.3196	0.3275
processed	1.0000	1.0000	1.0000
profb	0.5653	0.1270	0.1302
promoters	1.0000	1.0000	1.0000
puc-rio	0.9836	0.9877	0.9877
pufs-1281%	0.3334	0.0000	0.0000
pufs-6410%	0.3332	0.0000	0.0000
pulsar	0.9357	0.8683	0.8712
raisin	0.8700	0.7333	0.7399
rejafada	1.0000	1.0000	1.0000
relathe	1.0000	1.0000	1.0000
rice	0.9850	0.9700	0.9700
rocket	0.6112	0.1959	0.2197
RT_IOT2022	0.9603	0.9931	0.9931
satimage	0.8897	0.8791	0.8797
scadi	0.6600	0.6316	0.6667
schiller	0.8333	0.6087	0.6614
sclerosis	1.0000	1.0000	1.0000
secom	0.4834	0.0000	0.0000
secondary_mushroom	0.9997	0.9993	0.9993
seeds	0.9077	0.8571	0.8601
segment	0.9696	0.9595	0.9599
segmentation	0.7871	0.5737	0.5742
segmentO	0.9913	0.9825	0.9827
seismic	0.4830	0.0000	0.0000
sens-2-gram	0.5569	0.0769	0.0981
sens-3-gram	0.6147	0.0873	0.1600
sens-4-gram	0.5940	0.1600	0.1784
sensorless	0.9925	0.9917	0.9917
shoppers	0.7969	0.5871	0.5930
sick	0.8989	0.7958	0.7977
sirtuin6	1.0000	1.0000	1.0000
smarket	0.9921	0.9840	0.9841
smk_can_187	0.3214	0.0000	0.0000
smoking	0.7590	0.5180	0.5181
soil_pollution	0.1859	-0.0177	0.0000
solar-flare	0.6183	0.6871	0.6979
sonar	0.5525	0.1000	0.1048
soybean	0.9389	0.9356	0.9365
spam-detection	0.8323	0.6575	0.6637
spambase	0.9231	0.8460	0.8462
spect	0.4444	0.0000	0.0000
spectf	0.7628	0.5243	0.5255
spectrometer	0.5518	0.6121	0.6175
squash-unstored	0.8333	0.6154	0.6667
startup	1.0000	1.0000	1.0000
steel_industry	0.8701	0.8345	0.8345
stellar	0.9704	0.9542	0.9542
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Dataset	F1-macro	Kappa	MCC
stock	0.9131	0.8229	0.8261
stockb	0.9956	0.9934	0.9934
streaming	0.9880	0.9758	0.9761
stress	0.9690	0.9603	0.9609
student-depression	0.8271	0.6537	0.6541
student-habits	0.1352	-0.1591	0.0000
student-lifestyle	0.2724	0.3388	0.3620
student-weekend	0.2842	0.1629	0.1633
student-workday	0.2655	0.0777	0.1982
studentap	0.3636	0.1415	0.1525
swarm_aligned	1.0000	1.0000	1.0000
swarm_flocking	0.9996	0.9992	0.9992
swarm_grouped	0.9996	0.9991	0.9991
tae	0.4820	0.2000	0.2056
telco-churn	0.8607	0.7171	0.7212
texture	0.9763	0.9719	0.9721
theorem	1.0000	1.0000	1.0000
thoracic	0.4535	-0.0387	0.0000
Thyroid_Diff	0.9048	0.7912	0.8090
tis	0.8690	0.7372	0.7379
titanic	0.7934	0.5163	0.5813
tourist	0.5250	0.6364	0.6848
trains	1.0000	1.0000	1.0000
transfusion	0.5591	0.1168	0.1179
tuandromd	0.9601	0.9201	0.9201
turkish	0.8218	0.7667	0.7712
tvnews	0.2679	0.0000	0.0000
ur3_cobotops_grip	0.4917	0.0000	0.0000
ur3_cobotops_stop	0.6938	0.3441	0.3744
urban	0.8739	0.8254	0.8275
ustilago10%	0.4973	0.0000	0.0000
vehicle	0.7163	0.6921	0.6937
vote	0.8474	0.6760	0.6949
vowel	0.5751	0.5222	0.5331
wap-wc	0.5763	0.7343	0.7371
warpar10p	0.5958	0.6556	0.6690
warppie10p	0.9667	0.9471	0.9495
waveform	0.8114	0.7149	0.7171
weather-related	0.9668	0.9629	0.9631
weight-lift	0.9982	0.9977	0.9977
white-clover	0.5000	0.0000	0.0000
wifi-loc	0.9750	0.9667	0.9667
wilt	0.8448	0.6838	0.6889
wine	0.8530	0.7733	0.8006
winequality-red	0.3182	0.4140	0.4189
winequality-white	0.4359	0.4995	0.5005
winnipeg10%	0.9880	0.9841	0.9841
wisc.bc	0.9272	0.8521	0.8545
yale	0.6797	0.7311	0.7405
yeast	0.4273	0.4547	0.4584
yeastCYT-POX	0.4896	0.0000	0.0000
yeastEXC	0.4932	0.0000	0.0000
yeastME1	0.8546	0.6605	0.7022
yeastME2	0.4879	0.0000	0.0000
zip	0.9338	0.9325	0.9326

Table 63: Detailed results for CALIFOREST 10

Dataset	F1-macro	Kappa	MCC
abalone	0.1167	0.0859	0.0910
abalone19	0.4967	0.0000	0.0000
accelerometer	0.6781	0.1811	0.2773
ads	0.9257	0.8425	0.8525
adult	0.7943	0.5751	0.5924
advanced-iot	0.9943	1.0000	0.9947
AID_1431	0.4791	0.0000	0.0000
AID_1431_KlekotaRothFingerprinter	0.4755	0.0000	0.0000
AID_1431_MACCSFingerprinter	0.4784	0.0000	0.0000
AID_1878	0.4493	0.0000	0.0000
AID_602330	0.4911	0.0000	0.0000
AID_652128	0.3118	0.0000	0.0000
AID1284red	0.4612	0.0000	0.0000
AID1608Morered	0.4811	0.0000	0.0000
AID1608red	0.4885	0.0000	0.0000
AID362red	0.4966	0.0000	0.0000
AID456red	0.4989	0.0000	0.0000
AID604AID644_AllRed	0.5023	0.0000	0.0000
AID687red	0.5004	0.0000	0.0000
AID688red	0.5027	0.0000	0.0000
AID721morered	0.4392	0.0000	0.0000
AID721red	0.4402	0.0000	0.0000
aids	0.8455	0.6857	0.7119
air_pollution	0.0827	0.0000	0.0000
alcohol	0.6505	0.7549	0.7555
all-aml	0.9989	0.9985	1.0000
anneal	0.9731	0.9526	0.9480
antivirus	1.0000	1.0000	1.0000
anuran-f-b	0.9963	1.0000	0.9957
anxiety	0.0862	-0.0053	0.0000
apple-quality	0.8461	0.6988	0.7014
arabidopsis1%	0.4929	0.0000	0.0000
arcene	0.7417	0.4919	0.4965
arrhythmia	0.6465	0.6888	0.6903
auction	0.9848	0.9561	0.9544
audiology	0.9729	0.9440	0.9566
audit-risk	0.9993	1.0000	0.9990
autism-adolescent	1.0000	1.0000	1.0000
autism-adult	0.9998	0.9904	0.9974
autism-child	1.0000	0.9992	1.0000
autos	0.9015	0.8663	0.8696
avila	0.9560	0.9600	0.9588
balance	0.5892	0.7249	0.7327
bank	0.7301	0.4476	0.4589
bankruptcy	1.0000	0.9925	1.0000
biodeg	0.8015	0.5692	0.5873
biomed	0.9984	0.9910	0.9937
body-perf	0.7127	0.6245	0.6253
brain-tumor	0.5006	-0.0022	0.0000
breast-cancer	0.6517	0.2471	0.2893
breast-cancer-ma	0.8399	0.6439	0.6889
breast-tissue	0.5693	0.5612	0.6002
bridges	0.5864	0.5911	0.6160
cad	0.9970	0.9950	0.9996
cancer	0.9926	1.0000	1.0000
Continued on next page			

Dataset	F1-macro	Kappa	MCC
cancer-uae	0.2712	-0.0051	0.0000
car-insurance	0.8259	0.6488	0.6481
cardiotocography-nsp	0.8882	0.8362	0.8468
cardiovascular	0.7289	0.4706	0.4627
cargo2k	0.9996	0.9983	0.9980
cars	0.6390	0.5528	0.5584
cervical-B	0.8560	0.7076	0.7099
cervical-H	0.4900	0.0000	0.0000
cervical-S	0.8462	0.6459	0.6894
children-anemia	0.9372	0.9078	0.9113
chrom211%	0.4976	0.0000	0.0000
churn	0.7260	0.4071	0.4452
cjs	1.0000	0.9982	0.9904
ckd	0.9986	1.0000	1.0000
clave	0.6507	0.6873	0.6866
cll_sub_111	0.6337	0.3009	0.3044
cmc	0.5203	0.2997	0.3034
cnae-9	0.9227	0.8993	0.9082
codon_usage	0.7784	0.8995	0.9009
coil20	1.0000	1.0000	1.0000
college	0.9621	0.9319	0.9326
collins	0.9624	0.9632	0.9369
colon-tumor	0.3989	0.0000	0.0000
colposcopies-1	0.5668	0.1104	0.1309
colposcopies-2	0.6013	0.1804	0.2072
colposcopies-4	0.6638	0.3158	0.3297
colposcopies-5	0.4396	-0.0607	0.0000
colposcopies-c	0.6985	0.2028	0.3338
column-2c	0.8666	0.7208	0.7235
column-3c	0.6675	0.5832	0.5854
coupon	0.7234	0.4444	0.4438
covtypeCD	0.9573	0.9307	0.9194
covtypeT	0.8928	0.7893	0.7976
crabs	0.8077	0.7372	0.7422
crowdsourced	0.8417	0.8878	0.8870
cryotherapy	0.3097	0.0000	0.0000
cultivars	0.3735	0.4170	0.4229
cybersecurity	0.0768	-0.0275	0.0000
cyclopentane	0.7728	0.5475	0.5501
cylinder-bands	0.6856	0.3668	0.3887
datatrieve	0.4807	0.0000	0.0000
dbworld	0.9975	1.0000	0.9914
default	0.7200	0.4191	0.4334
dementia	1.0000	0.9971	1.0000
deposit	0.7506	0.4920	0.4968
depressed	0.4515	-0.0137	0.0000
dermatology	0.9782	0.9683	0.9750
desharnais	0.6130	0.4301	0.5476
df_final	0.7221	0.5076	0.5863
DIA	0.7000	0.3534	0.3902
diagnosis	0.9979	0.9969	1.0000
diamonds	1.0000	0.9937	0.9987
diamonds_all	0.7518	0.6507	0.6591
dishonest	0.9965	1.0000	0.9989
dlbcl-nih	0.5471	0.0905	0.0980
dlbcl-stanford	0.8295	0.6176	0.6645
drebin	0.9648	0.9273	0.9271
dropout	0.7087	0.6171	0.6245
Continued on next page			

Dataset	F1-macro	Kappa	MCC
ecoli	0.5740	0.7111	0.7165
ecoliCP-IM	0.9920	1.0000	0.9992
ecoliM	0.8069	0.5770	0.6031
ecoliMU	0.6331	0.2684	0.2688
ecoliOM	0.8469	0.6522	0.6992
ecommerce	0.2126	-0.0305	0.0000
euthyroid	0.9044	0.8115	0.8143
fakenews	0.5299	0.0158	0.0412
fbis-wc	0.7538	0.7836	0.7926
finance	0.5532	0.1010	0.1068
financial-risk	0.6200	0.7921	0.7962
flags	0.5650	0.6308	0.6426
forest	0.8958	0.8687	0.8612
gas	0.9900	0.9833	0.9890
gastrointestinal	0.8028	0.6082	0.6626
gender	0.4483	0.1325	0.1440
german	0.6464	0.2848	0.2953
gestures	0.9301	0.8920	0.9037
gina	0.9463	0.9117	0.9006
gisette	0.9608	0.9294	0.9360
glass	0.7497	0.6727	0.6753
glass-g2	0.9301	0.8647	0.8659
glassBWFP	0.8113	0.5513	0.6164
glassBWNFP	0.8399	0.6377	0.6867
glassContainers	0.4751	0.0000	0.0000
glassNW	0.8679	0.6954	0.7249
glassTableware	0.4878	0.0000	0.0000
GlaucomaM	0.7427	0.4729	0.4768
gli_85	0.9973	0.9965	1.0000
glioma	0.8296	0.7071	0.7484
glioma-grade	0.8701	0.7298	0.7358
green	0.6109	0.2091	0.2186
gsalc	0.7505	0.7302	0.7352
haberman	0.4128	-0.0630	0.0000
hapt	0.9042	0.9573	0.9577
har	0.9833	0.9830	0.9767
health-activity	0.2177	0.0000	0.0000
heart	0.7307	0.4243	0.4604
heart-c	0.9295	0.8634	0.8658
heart-failure	0.9826	0.9612	0.9603
heart-quantum	0.8906	0.7600	0.7851
hepatitis	0.8563	0.6714	0.7107
higher	0.2240	0.1603	0.1878
hinselmann	0.4421	0.0000	0.0000
hitters	0.8460	0.6783	0.6812
hiv1-proteasa	0.7783	0.5410	0.5589
hiva	0.4932	0.0000	0.0000
horse	0.6505	0.4376	0.4430
hotel-reservartions	0.8650	0.7340	0.7344
hr	0.4648	-0.0068	0.0000
htru2	0.9428	0.8811	0.8726
hypothyroid	0.7377	0.9504	0.9506
immuno-therapy	0.4349	0.0000	0.0000
ionosphere	0.9610	0.9368	0.9309
iris	0.9283	0.8921	0.9001
irish	1.0000	0.9923	0.9958
isolet	0.9148	0.9065	0.9064
jm1	0.6478	0.2109	0.2757
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Dataset	F1-macro	Kappa	MCC
jvowels	0.9584	0.9667	0.9602
kc1-class-level-numericdefect	0.1523	-0.0842	0.0000
kc1-class-level-top5percentDF	0.4826	0.0000	0.0000
kc2	0.6472	0.2946	0.3016
kdc-4007	0.7984	0.7664	0.7664
kddcup991%	0.7481	0.9925	0.9945
kidney	0.1776	0.0000	0.0000
kidney-disease	0.9727	0.9492	0.9415
la2s-wc	0.8245	0.8048	0.8097
labor	0.9967	0.9972	0.9981
leaf	0.7274	0.7473	0.7511
led24	0.7182	0.6595	0.6673
lenses	0.1688	0.0000	0.0000
letter	0.9363	0.9318	0.9412
linkage1%	0.9467	0.8787	0.8848
loan	0.9959	0.9812	0.9832
lrs	0.8114	0.8125	0.8298
lung_discrete	0.6495	0.6663	0.6993
lymphography	0.5609	0.6094	0.6550
lymphoma2	0.7843	0.8527	0.8620
machine-failure	0.8952	0.7855	0.7824
magic04	0.8574	0.7101	0.7125
malware	0.9901	0.9942	0.9935
mammography	0.8364	0.6665	0.6619
marketing	0.7191	0.4109	0.4308
mba	0.4034	0.1879	0.1991
mental-disorders	0.9998	0.9964	1.0000
messidor	0.6298	0.2593	0.2581
meter-A	0.7365	0.4639	0.4621
meter-B	0.9122	0.8266	0.8438
meter-C	0.9993	1.0000	0.9981
meter-D	0.9175	0.9213	0.9221
mfeat-fac	0.9647	0.9669	0.9577
mfeat-fou	0.8107	0.7816	0.7890
mfeat-kar	0.9490	0.9319	0.9442
mfeat-mor	0.7258	0.6919	0.7025
mfeat-pix	0.9770	0.9756	0.9741
mfeat-zer	0.7987	0.7900	0.7966
mice-prot	1.0000	0.9977	0.9979
milk	0.9984	0.9977	0.9957
mines	0.5367	0.4452	0.4558
mobile	0.9330	0.9204	0.9228
monks-1	0.9310	0.8552	0.8646
monks-3	0.9762	0.9636	0.9661
mushroom	0.9999	0.9970	1.0000
music	0.5390	0.4181	0.4216
MUT_ci300400a_cdk_ECFP2	0.7601	0.5323	0.5344
MUT_ci300400a_cdk_ECFP4	0.7828	0.5581	0.5571
MUT_ci300400a_cdk_ECFP6	0.7456	0.4955	0.4955
MUT_ci300400a_cdk_ESTATE	0.7479	0.5052	0.4995
MUT_ci300400a_cdk_EXTENDED	0.7967	0.5973	0.6025
MUT_ci300400a_cdk_FCFP2	0.7383	0.4773	0.4775
MUT_ci300400a_cdk_FCFP4	0.7195	0.4417	0.4461
MUT_ci300400a_cdk_FCFP6	0.7609	0.5172	0.5157
MUT_ci300400a_cdk_MACCS	0.7926	0.5825	0.5776
MUT_ci300400a_cdk_PUBCHEM	0.8209	0.6436	0.6462
MUT_ci300400a_cdk_STANDARD	0.8054	0.6080	0.6096
MUT_ci300400a_rdkit_descriptors	0.8029	0.6168	0.6149

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Dataset	F1-macro	Kappa	MCC
myocardial	0.3091	0.3832	0.4921
naticusdroid	0.9607	0.9344	0.9341
nci9	0.3778	0.3941	0.4725
neo	0.6771	0.1891	0.2942
new-thyroid	0.9996	1.0000	0.9998
new-thyroidT	1.0000	0.9999	1.0000
newspop	0.6677	0.3369	0.3392
NHANES_age_prediction	0.9953	0.9938	0.9977
nursery	0.9593	0.9702	0.9720
obesity	0.9361	0.9229	0.9273
obs	0.9945	0.9908	0.9934
oh0-wc	0.9186	0.9140	0.9061
oh10-wc	0.7609	0.7449	0.7515
oh15-wc	0.8917	0.8658	0.8639
oh5-wc	0.8771	0.8491	0.8522
olive	0.9336	0.9336	0.9396
optdigits	0.9704	0.9598	0.9537
orlraws10P	0.6681	0.6698	0.6801
ozone1hr	0.4879	0.0000	0.0000
p53-mutants10%	0.5013	0.0000	0.0000
parkinson	0.9893	0.9853	0.9852
pc1	0.4783	-0.0162	0.0000
pcmac	0.3673	0.0000	0.0000
pediatric-leukemia	0.6802	0.6638	0.6755
pendigits	0.9931	0.9961	0.9965
period-10f	0.6577	0.3082	0.3169
persistency	0.7828	0.5557	0.5697
pet-adoption	0.9268	0.8473	0.8447
phishing	0.9408	0.8760	0.8717
PhiUSIL10%	1.0000	1.0000	0.9936
phy	0.7094	0.4190	0.4242
pima	0.6704	0.3317	0.3447
pirvision	0.9890	0.9742	0.9713
placement	0.7933	0.5741	0.5802
plrx	0.3966	-0.1021	0.0000
polya	0.7559	0.5218	0.5176
popularity	0.4386	0.2802	0.2969
post-operative	0.4026	0.0000	0.0000
pred-tox_mutagen_ref-desc	0.7571	0.4998	0.5090
prestige	0.8899	0.8327	0.8419
primary-tumor	0.2946	0.3172	0.3227
profb	0.3916	-0.0577	0.0000
promoters	0.9066	0.7967	0.8156
pulsar	0.9417	0.8906	0.8861
raisin	0.9112	0.8206	0.8243
rejafada	0.4898	0.0000	0.0000
relathe	1.0000	0.9978	0.9995
rice	0.9865	0.9737	0.9681
rocket	0.7049	0.4135	0.4168
satimage	0.8863	0.8767	0.8735
scadi	0.6560	0.6297	0.6581
schiller	0.8281	0.6064	0.6610
sclerosis	1.0000	0.9967	1.0000
secom	0.4821	0.0000	0.0000
seeds	0.9476	0.9275	0.9310
segment	0.9347	0.9206	0.9205
segmentation	0.8006	0.5991	0.6042
segmentO	0.9976	1.0000	1.0000
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Dataset	F1-macro	Kappa	MCC
seismic	0.4803	0.0000	0.0000
sens-2-gram	0.6729	0.0995	0.2293
sens-3-gram	0.6316	0.1185	0.2009
sens-4-gram	0.6197	0.0613	0.1406
sensorless	0.9943	0.9964	1.0000
shoppers	0.7894	0.5923	0.5891
sick	0.9220	0.8411	0.8436
sirtuin6	0.9983	0.9980	0.9970
smarket	0.9894	0.9821	0.9873
smk.can_187	0.5096	0.0228	0.0273
smoking	0.7700	0.5198	0.5235
soil_pollution	0.2095	0.0004	0.0012
solar-flare	0.6336	0.6636	0.6718
sonar	0.6564	0.2985	0.3166
soybean	0.9856	0.9809	0.9843
spam-detection	0.8884	0.7604	0.7651
spambase	0.9369	0.8733	0.8849
spect	0.4426	0.0000	0.0000
spectf	0.7822	0.5471	0.5631
spectrometer	0.5511	0.6090	0.6081
squash-unstored	0.9917	0.9972	0.9923
startup	0.9973	0.9994	0.9972
steel_industry	0.8877	0.8456	0.8495
stellar	0.9764	0.9659	0.9425
stock	0.8472	0.6928	0.6907
stockb	0.9990	0.9909	0.9961
streaming	0.9932	0.9948	0.9929
stress	0.9799	0.9849	0.9768
student-depression	0.8170	0.6387	0.6410
student-habits	0.1098	0.0000	0.0000
student-lifestyle	0.3418	0.3708	0.3683
student-weekend	0.1589	0.0706	0.0978
student-workday	0.2138	0.1289	0.1666
studentap	0.4043	0.2403	0.3108
tae	0.4848	0.1997	0.2051
telco-churn	0.8602	0.7233	0.7264
texture	0.9797	0.9731	0.9818
theorem	0.9795	0.9726	0.9731
thoracic	0.4602	0.0000	0.0000
Thyroid_Diff	0.9627	0.9294	0.9334
tis	0.8901	0.7792	0.7731
titanic	0.7887	0.5183	0.5849
tourist	0.5257	0.6400	0.6696
trains	1.0000	1.0000	0.9969
transfusion	0.5407	0.0741	0.0812
tuandromd	0.9798	0.9408	0.9446
turkish	0.7024	0.5997	0.6151
ur3_cobotops_grip	0.7946	0.4925	0.5712
ur3_cobotops_stop	0.7113	0.2921	0.3827
urban	0.8413	0.8068	0.8119
ustilago10%	0.4983	0.0000	0.0000
vehicle	0.7176	0.6406	0.6653
vote	0.9286	0.8580	0.8611
vowel	0.6349	0.5176	0.5307
wap-wc	0.5991	0.7737	0.7798
warpar10p	0.8086	0.7359	0.7525
warppie10p	0.9665	0.9470	0.9491
waveform	0.8513	0.7782	0.7729
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Dataset	F1-macro	Kappa	MCC
weather-related	0.9682	0.9683	0.9716
white-clover	0.7477	0.4002	0.5003
wifi-loc	0.9967	0.9937	0.9924
wilt	0.8518	0.7160	0.7132
wine	0.9948	1.0000	1.0000
winequality-red	0.3103	0.4368	0.4423
winequality-white	0.4026	0.4172	0.4247
winnipeg10%	0.9963	0.9865	0.9887
wisc.bc	0.9813	0.9561	0.9651
yale	0.6878	0.7324	0.7385
yeast	0.4577	0.4702	0.4793
yeastCYT-POX	0.9043	0.7888	0.8091
yeastEXC	0.4924	0.0000	0.0000
yeastME1	0.8776	0.7483	0.7438
yeastME2	0.4848	0.0000	0.0000
zip	0.9263	0.9311	0.9299

Table 64: Detailed results for ExtraTrees 10

Dataset	F1-macro	Kappa	MCC
abalone	0.1225	0.0598	0.0602
abalone19	0.4797	-0.0132	0.0000
accelerometer	0.6923	0.3155	0.3711
ads	0.9419	0.8727	0.8841
adult	0.7713	0.4937	0.5256
advanced-iot	0.9956	0.9999	1.0000
AID_1431	0.5807	0.1105	0.1365
AID_1431_KlekotaRothFingerprinter	0.4523	-0.0951	0.0000
AID_1431_MACCSFingerprinter	0.4683	-0.0392	0.0000
AID_1878	0.6068	0.2125	0.2133
AID_602330	0.4866	-0.0169	0.0000
AID_652128	0.5966	0.2368	0.3043
AID1284red	0.5895	0.1650	0.1711
AID1608Morered	0.5575	0.1174	0.1180
AID1608red	0.4577	-0.0784	0.0000
AID362red	0.5225	0.0228	0.0341
AID456red	0.4963	-0.0047	0.0000
AID604AID644_AllRed	0.4872	-0.0020	0.0000
AID687AID721red	0.4907	-0.0012	0.0000
AID687red	0.5151	0.0134	0.0233
AID688red	0.4884	-0.0137	0.0000
AID721morered	0.4007	-0.1738	0.0000
AID721red	0.4373	0.0000	0.0000
aids	0.7855	0.5659	0.5692
air_pollution	0.1285	-0.0107	0.0000
alcohol	0.6467	0.6332	0.6356
all-aml	0.8216	0.5683	0.6351
anneal	0.8145	0.7629	0.7835
antivirus	0.9966	0.9978	1.0000
anuran-f-b	0.8341	0.5956	0.6500
anxiety	0.0887	-0.0315	0.0000
apple-quality	0.8349	0.6852	0.6799
arabidopsis1%	0.4965	0.0000	0.0000
arcene	0.7471	0.4914	0.4948
arrhythmia	0.6215	0.6275	0.6422
auction	0.9027	0.7960	0.8117
audiology	0.6451	0.7832	0.8043
audit-risk	0.9528	0.9185	0.9139
autism-adolescent	1.0000	0.9991	0.9923
autism-adult	0.9641	0.9268	0.9325
autism-child	0.8630	0.7203	0.7220
autos	0.8029	0.7385	0.7379
avila	0.8866	0.9520	0.9535
balance	0.6866	0.6346	0.6521
bank	0.7426	0.4516	0.4751
bankruptcy	1.0000	0.9997	0.9957
biodeg	0.8987	0.7959	0.7979
biomed	0.9983	1.0000	1.0000
body-perf	0.7094	0.6254	0.6213
brain-tumor	0.4985	-0.0000	0.0000
breast-cancer	0.6257	0.2388	0.2495
breast-cancer-ma	0.6369	0.2653	0.2636
breast-tissue	0.7137	0.6774	0.6886
bridges	0.6034	0.5890	0.6021
cad	0.9601	0.9222	0.9338
Continued on next page			

Dataset	F1-macro	Kappa	MCC
cancer	0.9993	1.0000	1.0000
cancer-uae	0.3093	-0.0564	0.0000
car-insurance	0.8038	0.6131	0.6204
cardiotocography-nsp	0.7963	0.7029	0.7211
cardiovascular	0.7345	0.4714	0.4628
cargo2k	1.0000	0.9947	1.0000
cars	0.6673	0.5598	0.5681
cervical-B	0.7723	0.5368	0.5420
cervical-H	0.7559	0.3978	0.5015
cervical-S	0.8244	0.6233	0.6483
children-anemia	0.7189	0.6847	0.6882
chrom211%	0.4995	0.0000	0.0000
churn	0.7321	0.4466	0.4600
cjs	0.9890	0.9818	0.9869
ckd	1.0000	1.0000	0.9972
clave	0.6890	0.6897	0.6906
cll_sub_111	0.4548	0.1625	0.1781
cmc	0.5341	0.3075	0.3083
cnae-9	0.9122	0.8851	0.8863
codon_usage	0.7678	0.8881	0.8846
coil20	0.9982	0.9988	0.9942
college	0.9256	0.8476	0.8497
collins	0.7504	0.8008	0.7973
colon-tumor	0.4000	0.0000	0.0000
colposcopies-1	0.5431	0.0843	0.0837
colposcopies-2	0.7602	0.4156	0.5110
colposcopies-4	0.5680	0.1369	0.1378
colposcopies-5	0.5671	0.1380	0.1442
colposcopies-c	0.8487	0.6706	0.7063
column-2c	0.8339	0.6162	0.6713
column-3c	0.6991	0.5858	0.5989
coupon	0.7392	0.4910	0.4906
covtypeCD	0.9250	0.8227	0.8277
covtypeT	0.8228	0.5935	0.6453
crabs	0.8050	0.7355	0.7432
crowdsourced	0.8494	0.8589	0.8599
cryotherapy	0.6562	0.3083	0.3174
cultivars	0.4397	0.4837	0.4877
cybersecurity	0.1978	0.0285	0.0287
cyclopentane	0.7828	0.5558	0.5607
cylinder-bands	0.6512	0.3031	0.3055
datatrieve	0.3788	-0.1395	0.0000
dbworld	0.9932	0.9974	1.0000
default	0.7156	0.4265	0.4299
dementia	1.0000	1.0000	0.9890
deposit	0.7545	0.4836	0.5112
depressed	0.5709	0.1417	0.1429
dermatology	0.9756	0.9666	0.9660
desharnais	0.3489	0.0919	0.1083
df_final	0.3769	0.0586	0.0590
DIA	0.7773	0.5545	0.5555
diagnosis	0.9957	0.9987	0.9989
diamonds	0.9966	0.9971	0.9941
diamonds_all	0.6285	0.5435	0.5485
dishonest	1.0000	0.9934	1.0000
dlbcl-nih	0.4132	-0.1630	0.0000
dlbcl-stanford	0.7043	0.2854	0.4066
drebin	0.9778	0.9693	0.9604
Continued on next page			

Dataset	F1-macro	Kappa	MCC
dropout	0.7011	0.5899	0.5961
ecoli	0.7307	0.7900	0.7929
ecoliCP-IM	1.0000	0.9917	0.9987
ecoliM	0.7955	0.5732	0.5965
ecoliMU	0.5850	0.1007	0.1555
ecoliOM	0.8986	0.7816	0.8013
ecommerce	0.2236	-0.0398	0.0000
euthyroid	0.7584	0.4059	0.4968
fakenews	0.4927	-0.0157	0.0000
fbis-wc	0.7802	0.7729	0.7703
finance	0.5181	0.0289	0.0295
financial-risk	0.6189	0.6951	0.6970
flags	0.4849	0.4683	0.4860
forest	0.9419	0.9192	0.9226
gas	0.9941	0.9953	0.9932
gastrointestinal	0.5782	0.3335	0.3818
gender	0.4611	0.1929	0.1953
german	0.6658	0.3306	0.3285
gestures	0.9315	0.9101	0.9065
gina	0.9415	0.8814	0.8807
gisette	0.9556	0.9201	0.9240
glass	0.9000	0.8688	0.8748
glass-g2	0.9988	0.9941	0.9929
glassBWFP	0.8902	0.7996	0.7983
glassBWNFP	0.8383	0.6894	0.6931
glassContainers	0.9031	0.7781	0.7919
glassNW	0.9380	0.8715	0.8807
glassTableware	1.0000	1.0000	0.9933
GlaucomaM	0.7420	0.4724	0.4784
gli.85	1.0000	0.9991	0.9896
glioma	0.8264	0.7078	0.7461
glioma-grade	0.8676	0.7358	0.7407
green	0.5237	0.0478	0.0477
gsalc	0.9996	0.9999	1.0000
haberman	0.6050	0.2087	0.2127
hapt	0.8841	0.9417	0.9467
har	0.9928	0.9858	0.9899
health-activity	0.2862	0.0248	0.0372
heart	0.7681	0.5245	0.5329
heart-c	0.9343	0.8609	0.8647
heart-failure	0.9801	0.9656	0.9591
heart-quantum	0.9234	0.8357	0.8456
hepatitis	0.8508	0.6632	0.7049
higher	0.1010	0.0060	0.0064
hinselmann	0.4078	-0.1541	0.0000
hitters	0.9366	0.8746	0.8692
hiv1-proteasa	0.8306	0.6373	0.6507
hiva	0.5518	0.0963	0.0958
horse	0.5765	0.3418	0.3416
hotel-reservartions	0.8472	0.7004	0.6967
hr	0.5539	0.1096	0.1146
htru2	0.9163	0.8427	0.8334
hypothyroid	0.5535	0.4270	0.5040
immuno-therapy	0.6732	0.3543	0.3563
ionosphere	0.9343	0.8605	0.8735
iris	1.0000	0.9986	0.9973
irish	0.9954	0.9991	0.9965
isolet	0.9138	0.9039	0.9039
Continued on next page			

Dataset	F1-macro	Kappa	MCC
jm1	0.6659	0.3195	0.3319
jvowels	0.9608	0.9548	0.9604
kc1-class-level-numericdefect	0.2773	0.2200	0.2312
kc1-class-level-top5percentDF	0.4628	-0.0712	0.0000
kc2	0.7161	0.4248	0.4306
kdc-4007	0.7936	0.7612	0.7526
kddcup991%	0.6892	0.9929	0.9971
kidney	0.1780	0.0000	0.0000
kidney-disease	0.9944	1.0000	0.9952
la2s-wc	0.8816	0.8766	0.8714
labor	0.9972	1.0000	0.9994
leaf	0.6674	0.6877	0.6949
led24	0.7754	0.7175	0.7218
lenses	1.0000	0.9925	0.9995
letter	0.9523	0.9457	0.9473
linkage1%	0.9272	0.8833	0.8875
loan	0.9560	0.9006	0.9163
lrs	0.9015	0.8166	0.8200
lung_discrete	0.9959	0.9988	1.0000
lymphography	0.5514	0.6023	0.6153
lymphoma2	0.6011	0.6808	0.7097
machine-failure	0.9190	0.8470	0.8426
magic04	0.8519	0.6931	0.6895
malware	0.9880	1.0000	1.0000
mammography	0.8489	0.6876	0.6901
marketing	0.7385	0.4705	0.4719
mba	0.4477	0.2870	0.3261
mental-disorders	0.8592	0.7723	0.7866
messidor	0.6859	0.3652	0.3737
meter-A	0.4210	-0.1103	0.0000
meter-B	0.9996	1.0000	1.0000
meter-C	0.9970	0.9991	1.0000
meter-D	0.9965	0.9974	1.0000
mfeat-fac	0.9644	0.9558	0.9560
mfeat-fou	0.7969	0.7735	0.7731
mfeat-kar	0.9600	0.9618	0.9601
mfeat-mor	0.7167	0.6849	0.6889
mfeat-pix	0.9879	0.9707	0.9735
mfeat-zer	0.7779	0.7601	0.7570
mice-prot	0.9999	1.0000	0.9894
milk	0.9975	0.9934	1.0000
mines	0.4699	0.3749	0.3801
mobile	0.9506	0.9416	0.9584
monks-1	0.7892	0.5612	0.5756
monks-3	0.9545	0.9295	0.9311
mushroom	0.9961	1.0000	0.9896
music	0.4926	0.3729	0.3784
MUT_ci300400a_cdk_ECFP2	0.7951	0.5760	0.5796
MUT_ci300400a_cdk_ECFP4	0.8088	0.6126	0.6188
MUT_ci300400a_cdk_ECFP6	0.7918	0.5861	0.5908
MUT_ci300400a_cdk_ESTATE	0.7487	0.4841	0.4903
MUT_ci300400a_cdk_EXTENDED	0.8408	0.6752	0.6744
MUT_ci300400a_cdk_FCFP2	0.7501	0.5001	0.5032
MUT_ci300400a_cdk_FCFP4	0.7763	0.5474	0.5534
MUT_ci300400a_cdk_FCFP6	0.7781	0.5512	0.5559
MUT_ci300400a_cdk_MACCS	0.8178	0.6388	0.6335
MUT_ci300400a_cdk_PUBCHEM	0.8351	0.6687	0.6625
MUT_ci300400a_cdk_STANDARD	0.8178	0.6299	0.6310

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Dataset	F1-macro	Kappa	MCC
MUT_ci300400a_rdkit_descriptors	0.8224	0.6383	0.6462
myocardial	0.3854	0.4638	0.5049
naticusdroid	0.9725	0.9372	0.9337
nci9	0.9970	1.0000	1.0000
neo	0.6813	0.1855	0.2890
new-thyroid	0.9959	1.0000	0.9931
new-thyroidT	1.0000	1.0000	1.0000
newspop	0.6557	0.3201	0.3197
NHANES_age_prediction	0.9284	0.8505	0.8607
nursery	0.9194	0.9527	0.9513
obesity	0.8504	0.8280	0.8227
obs	0.9368	0.8948	0.8897
oh0-wc	0.9012	0.8818	0.8871
oh10-wc	0.8224	0.8213	0.8190
oh15-wc	0.9027	0.8871	0.8945
oh5-wc	0.9077	0.8902	0.8869
olive	0.9156	0.9126	0.9120
optdigits	0.9680	0.9525	0.9583
orlraws10P	0.9978	1.0000	0.9951
ozonelhr	0.6118	0.2257	0.2276
p53-mutants10%	0.4996	0.0000	0.0000
parkinson	0.9482	0.8929	0.9021
pc1	0.7219	0.4238	0.4360
pcmac	0.4624	-0.0751	0.0000
pediatric-leukemia	0.7250	0.7449	0.7530
pendigits	0.9763	0.9837	0.9905
period-10f	0.5805	0.1440	0.1588
persistency	0.8157	0.6251	0.6254
pet-adoption	0.8715	0.7503	0.7497
phishing	0.9622	0.9217	0.9223
PhiUSIL10%	0.9960	0.9979	0.9929
phy	0.7113	0.4215	0.4199
pima	0.7935	0.5903	0.5914
pirvision	0.9698	0.9484	0.9476
placement	0.7834	0.5628	0.5621
plrx	0.3548	-0.2647	0.0000
polya	0.7601	0.5299	0.5315
popularity	0.4844	0.2987	0.3016
post-operative	0.3999	0.0000	0.0000
pred-tox_mutagen_ref-desc	0.6625	0.3234	0.3255
prestige	0.9937	0.9976	1.0000
primary-tumor	0.4701	0.4289	0.4383
profb	0.6341	0.2724	0.2730
promoters	1.0000	0.9979	1.0000
pulsar	0.9181	0.8487	0.8458
raisin	0.9158	0.8156	0.8233
rejafada	0.8133	0.6156	0.6381
relathe	0.9891	0.9847	0.9870
rice	0.9782	0.9713	0.9665
rocket	0.6703	0.3169	0.3419
satimage	0.8873	0.8782	0.8800
scadi	0.6561	0.6328	0.6630
schiller	0.6789	0.3592	0.3563
sclerosis	0.9998	1.0000	0.9953
secom	0.4851	0.0000	0.0000
seeds	0.9113	0.8494	0.8729
segment	0.9559	0.9370	0.9372
segmentation	0.8250	0.6426	0.6581
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Dataset	F1-macro	Kappa	MCC
segmentO	0.9859	0.9635	0.9673
seismic	0.6716	0.2649	0.3228
sens-2-gram	0.6496	0.3091	0.3094
sens-3-gram	0.6514	0.3014	0.3025
sens-4-gram	0.5811	0.1676	0.1699
sensorless	1.0000	0.9970	1.0000
shoppers	0.8055	0.5834	0.6025
sick	0.6732	0.2300	0.3133
sirtuin6	0.9931	0.9996	0.9978
smarket	0.9951	0.9825	0.9809
smk.can_187	0.5694	0.1456	0.1498
smoking	0.7510	0.5143	0.5138
soil_pollution	0.2144	0.0195	0.0197
solar-flare	0.6607	0.6418	0.6587
sonar	0.6010	0.2006	0.2052
soybean	0.9775	0.9424	0.9528
spam-detection	0.8557	0.6960	0.7141
spambase	0.9174	0.8350	0.8449
spect	0.4371	-0.1225	0.0000
spectf	0.7324	0.4718	0.4726
spectrometer	0.5631	0.6100	0.6144
squash-unstored	1.0000	1.0000	1.0000
startup	0.9992	0.9961	1.0000
steel_industry	0.8675	0.8196	0.8241
stellar	0.9679	0.9603	0.9546
stock	0.8424	0.6916	0.6949
stockb	0.9849	0.9732	0.9680
streaming	0.9267	0.8573	0.8675
stress	1.0000	0.9990	1.0000
student-depression	0.8332	0.6539	0.6536
student-habits	0.2109	0.0244	0.0247
student-lifestyle	0.4097	0.3598	0.3644
student-weekend	0.1970	0.0107	0.0109
student-workday	0.1830	0.1125	0.1144
studentap	0.4975	0.1886	0.2006
tae	0.5469	0.2992	0.3055
telco-churn	0.8528	0.7114	0.7052
texture	0.9721	0.9735	0.9642
theorem	0.9908	0.9902	0.9897
thoracic	0.4715	-0.0510	0.0000
Thyroid_Diff	0.9351	0.8560	0.8666
tis	0.8695	0.7442	0.7372
titanic	0.6879	0.3904	0.3892
tourist	0.5203	0.6349	0.6855
trains	0.3331	0.0000	0.0000
transfusion	0.4979	0.0046	0.0050
tuandromd	0.9615	0.9210	0.9278
turkish	0.8026	0.7323	0.7380
ur3_cobotops_grip	0.6580	0.2505	0.2981
ur3_cobotops_stop	0.7441	0.4281	0.4707
urban	0.8631	0.8257	0.8167
ustilago10%	0.4947	-0.0007	0.0000
vehicle	0.6992	0.6702	0.6775
vote	0.9248	0.8550	0.8600
vowel	0.7693	0.7101	0.7141
wap-wc	0.7441	0.8262	0.8312
warpar10p	0.6342	0.6487	0.6633
warppie10p	1.0000	0.9986	0.9983
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Dataset	F1-macro	Kappa	MCC
waveform	0.8428	0.7634	0.7703
weather-related	0.9783	0.9559	0.9671
white-clover	0.6593	0.1811	0.3149
wifi-loc	0.9842	0.9884	0.9847
wilt	0.8723	0.7038	0.7406
wine	0.9967	0.9959	0.9927
winequality-red	0.2846	0.3181	0.3245
winequality-white	0.4181	0.3782	0.3863
winnipeg10%	0.9907	0.9890	0.9964
wisc.bc	0.9773	0.9628	0.9549
yale	0.7671	0.7971	0.8062
yeast	0.4763	0.4859	0.4807
yeastCYT-POX	0.8425	0.6536	0.6877
yeastEXC	0.6941	0.2847	0.3565
yeastME1	0.7854	0.4441	0.5339
yeastME2	0.6816	0.3214	0.3491
zip	0.9449	0.9435	0.9382

Table 65: Detailed results for RerF 10

Dataset	F1-macro	Kappa	MCC
abalone	0.1080	0.1005	0.1011
abalone19	0.4982	0.0000	0.0000
accelerometer	0.6856	0.2083	0.3051
ads	0.9614	0.9198	0.9227
adult	0.8037	0.5867	0.6123
advanced-iot	1.0000	1.0000	0.9957
AID_1431	0.4772	0.0000	0.0000
AID_1431_KlekotaRothFingerprinter	0.4772	0.0000	0.0000
AID_1431_MACCSFingerprinter	0.4772	0.0000	0.0000
AID_1878	0.5447	0.0437	0.0679
AID_602330	0.4866	-0.0169	0.0000
AID_652128	0.3118	0.0000	0.0000
AID1284red	0.4627	0.0000	0.0000
AID1608Morered	0.4824	0.0000	0.0000
AID1608red	0.4850	0.0000	0.0000
AID362red	0.4959	-0.0040	0.0000
AID373AID439red	0.5000	0.0000	0.0000
AID373red	0.4997	0.0000	0.0000
AID456red	0.4992	0.0000	0.0000
AID604	0.4991	0.0000	0.0000
AID604AID644_AllRed	0.4997	0.0000	0.0000
AID687AID721red	0.4998	0.0000	0.0000
AID687red	0.4992	0.0000	0.0000
AID688red	0.4977	0.0000	0.0000
AID721morered	0.4375	0.0000	0.0000
AID721red	0.4375	0.0000	0.0000
AID746AID1284red	0.4997	0.0000	0.0000
AID746red	0.4985	0.0000	0.0000
aids	0.8248	0.6361	0.6487
air_pollution	0.0828	0.0016	0.0136
alcohol	0.4820	0.4797	0.5282
all-aml	1.0000	1.0000	1.0000
anneal	0.9872	0.9766	0.9769
antivirus	1.0000	1.0000	1.0000
anuran-f-b	1.0000	1.0000	1.0000
anxiety	0.1515	0.0323	0.0326
apple-quality	0.8910	0.7800	0.7819
aps-failure	0.8700	0.7335	0.7393
arabidopsis1%	0.4980	0.0000	0.0000
arcene	0.8488	0.6939	0.6975
arrhythmia	0.6122	0.6631	0.6816
auction	0.9075	0.7970	0.8140
audiology	0.5357	0.6954	0.7033
audit-risk	1.0000	1.0000	1.0000
autism-adolescent	1.0000	1.0000	1.0000
autism-adult	1.0000	1.0000	1.0000
autism-child	1.0000	1.0000	1.0000
autos	0.8576	0.8026	0.8163
avila	0.9801	0.9644	0.9860
balance	0.6444	0.8788	0.8857
bank	0.7494	0.4856	0.4964
bankruptcy	1.0000	1.0000	1.0000
bio	0.8928	0.7669	0.7835
biodeg	0.8788	0.7577	0.7577
biomed	1.0000	1.0000	1.0000
Continued on next page			

Dataset	F1-macro	Kappa	MCC
bitcoin10%	0.1654	0.0372	0.1178
body-perf	0.7228	0.6390	0.6436
brain-tumor	0.4765	-0.0465	0.0000
breast-cancer	0.7795	0.4615	0.5477
breast-cancer-ma	0.6553	0.2903	0.3105
breast-tissue	0.7179	0.6733	0.6869
bridges	0.6420	0.6774	0.7246
bub12at310k-hg16-17	0.6943	0.3216	0.3695
cad	1.0000	1.0000	1.0000
cancer	1.0000	1.0000	1.0000
cancer-uae	0.3210	0.0117	0.0126
car-insurance	0.8042	0.6071	0.6084
cardiotocography-nsp	0.8226	0.7445	0.7476
cardiovascular	0.7388	0.4762	0.4777
cargo2k	1.0000	1.0000	1.0000
cars	0.7223	0.6279	0.6309
ccds10%	0.4902	0.0000	0.0000
cdc_diabetes	0.4193	0.1342	0.2075
census	0.7638	0.4791	0.5171
cervical-B	0.7287	0.2712	0.3961
cervical-H	0.7640	0.3886	0.4911
cervical-S	0.8481	0.6446	0.6896
children-anemia	0.8263	0.8892	0.8910
chrom19	0.9338	0.8620	0.8673
chrom211%	0.4998	0.0000	0.0000
churn	0.7524	0.4787	0.5013
cjs	0.9916	0.9913	0.9913
ckd	1.0000	1.0000	1.0000
clave	0.6569	0.7077	0.7122
cll_sub_111	0.7222	0.4545	0.4545
cmc	0.4824	0.2268	0.2269
cnae-9	0.9373	0.9271	0.9274
codon_usage	0.7486	0.8931	0.8939
coil20	0.9806	0.9781	0.9783
college	0.9018	0.8036	0.8036
collins	0.8476	0.8895	0.8919
colon-tumor	0.8537	0.6667	0.7071
colposcopies-1	0.7635	0.4942	0.5249
colposcopies-2	0.7264	0.3176	0.4345
colposcopies-4	0.7810	0.4649	0.5504
colposcopies-5	0.4423	-0.0610	0.0000
colposcopies-c	0.7526	0.3777	0.4825
column-2c	0.8486	0.6884	0.6970
column-3c	0.7547	0.6804	0.6856
connect-4	0.6624	0.4737	0.5262
coupon	0.7452	0.4859	0.4904
covtype	0.8509	0.8352	0.8363
covtypeCD	0.9702	0.9401	0.9403
covtypeT	0.9120	0.8189	0.8236
crabs	1.0000	1.0000	1.0000
creditcard_trans	0.9049	0.7898	0.8079
crowdsourced	0.8526	0.8938	0.8948
cryotherapy	1.0000	1.0000	1.0000
cultivars	0.5082	0.5484	0.5534
cybersecurity	0.1199	-0.0055	0.0000
cyclopentane	0.6181	0.2241	0.2358
cylinder-bands	0.7513	0.4993	0.5027
datatrieve	0.4091	-0.1304	0.0000
Continued on next page			

Dataset	F1-macro	Kappa	MCC
dating	0.1030	0.0052	0.0053
dbworld	1.0000	1.0000	1.0000
default	0.7017	0.3696	0.3977
dementia	1.0000	1.0000	1.0000
deposit	0.7249	0.4300	0.4458
depressed	0.4542	0.0000	0.0000
dermatology	0.9429	0.9325	0.9325
desharnais	0.6000	0.5294	0.5294
df_final	0.7551	0.6049	0.6345
DIA	0.7302	0.3889	0.4491
diabetes-100k	0.8929	0.7615	0.7838
diagnosis	1.0000	1.0000	1.0000
diamonds	1.0000	1.0000	1.0000
diamonds_all	0.7555	0.6627	0.6673
dishonest	1.0000	1.0000	1.0000
dlbcl-nih	0.5391	0.0625	0.0756
dlbcl-stanford	0.2857	0.0000	0.0000
dna0.1%	0.4993	0.0000	0.0000
dota2	0.5645	0.1289	0.1290
drebin	0.9593	0.9179	0.9186
dropout	0.6651	0.5789	0.5876
ecoli	0.6893	0.7521	0.7617
ecoliCP-IM	1.0000	1.0000	1.0000
ecoliM	0.9175	0.8350	0.8350
ecoliMU	0.7292	0.4359	0.4543
ecoliOM	0.7339	0.4677	0.4677
ecommerce	0.2700	0.0258	0.0262
euthyroid	0.8960	0.7880	0.7917
fakenews	0.5195	0.0387	0.0390
fbis-wc	0.7362	0.7899	0.7947
finance	0.8415	0.6808	0.6829
financial-risk	0.6094	0.7249	0.7365
flags	0.4774	0.6764	0.6861
forest	0.8906	0.8669	0.8710
gas	0.9967	0.9956	0.9956
gastrointestinal	0.8305	0.6981	0.7116
gender	0.4748	0.1516	0.1624
german	0.6284	0.2211	0.2516
gestures	0.9259	0.9007	0.9011
gina	0.9482	0.8963	0.8965
gisette	0.9672	0.9343	0.9344
glass	0.7125	0.6591	0.6731
glass-g2	0.8873	0.7500	0.7746
glassBWFP	0.8568	0.6736	0.7126
glassBWNFP	0.8441	0.6400	0.6860
glassContainers	1.0000	1.0000	1.0000
glassNW	0.9340	0.8591	0.8677
glassTableware	1.0000	1.0000	1.0000
GlaucomaM	0.7978	0.5824	0.5955
gli_85	1.0000	1.0000	1.0000
glioma	0.8333	0.7059	0.7500
glioma-grade	0.8922	0.7823	0.7843
green	0.4553	-0.0870	0.0000
gsalc	0.9167	0.8657	0.8788
haberman	0.4118	-0.0630	0.0000
hapt	0.8985	0.9611	0.9611
har	0.9872	0.9852	0.9852
harth10%	0.6739	0.8536	0.8545
Continued on next page			

Dataset	F1-macro	Kappa	MCC
health-activity	0.2175	0.0000	0.0000
heart	0.8090	0.5994	0.6175
heart-c	0.9009	0.8000	0.8018
heart-failure	0.9791	0.9577	0.9582
heart-quantum	0.9423	0.8780	0.8847
hepatitis	0.7266	0.4444	0.4523
higher	0.1765	0.1195	0.1419
hinselmann	0.4118	-0.1538	0.0000
hitters	0.8477	0.6825	0.6953
hiv1-proteasa	0.7748	0.4847	0.5393
hiva	0.6167	0.1102	0.1731
horse	0.5454	0.3624	0.3701
hotel-reservartions	0.8892	0.7763	0.7783
hr	0.4633	0.0000	0.0000
ht-sensor	0.9997	0.9996	0.9996
htru2	0.9305	0.8596	0.8609
hypothyroid	0.7384	0.9532	0.9534
immuno-therapy	0.6786	0.3571	0.3571
ionosphere	0.9404	0.8736	0.8807
iris	1.0000	1.0000	1.0000
irish	1.0000	1.0000	1.0000
isolet	0.9066	0.8985	0.8990
jm1	0.6447	0.1930	0.2588
jvowels	0.9840	0.9841	0.9841
kc1-class-level-numericdefect	0.4783	0.5116	0.5933
kc1-class-level-top5percentDF	0.4828	0.0000	0.0000
kc2	0.7118	0.4235	0.4235
kdc-4007	0.7755	0.7233	0.7254
kddcup991%	0.8291	0.9976	0.9976
kidney	0.1778	0.0000	0.0000
kidney-disease	1.0000	1.0000	1.0000
la2s-wc	0.8844	0.8689	0.8722
labor	1.0000	1.0000	1.0000
leaf	0.7624	0.7532	0.7608
led24	0.6202	0.5467	0.5483
lenses	0.5714	0.5000	0.6124
letter	0.9551	0.9532	0.9532
linkage1%	0.9879	0.9755	0.9758
loan	0.9851	0.9699	0.9701
lrs	0.6579	0.8418	0.8521
lung_discrete	1.0000	1.0000	1.0000
lymphography	0.4934	0.4510	0.4560
lymphoma2	0.4194	0.5000	0.5511
machine-failure	0.9124	0.8247	0.8247
magic04	0.8587	0.7113	0.7172
malware	1.0000	1.0000	1.0000
mammography	0.8460	0.6883	0.6921
marketing	0.7417	0.3758	0.4591
mba	0.3041	0.0000	0.0000
mental-disorders	0.9270	0.8889	0.8972
messidor	0.7017	0.3961	0.4034
meter-A	0.8000	0.5294	0.6000
meter-B	1.0000	1.0000	1.0000
meter-C	1.0000	1.0000	1.0000
meter-D	0.9583	0.9234	0.9274
mfeat-fac	0.9568	0.9500	0.9505
mfeat-fou	0.8159	0.7944	0.7948
mfeat-kar	0.9760	0.9722	0.9724
Continued on next page			

Dataset	F1-macro	Kappa	MCC
mfeat-mor	0.6872	0.6500	0.6506
mfeat-pix	0.9852	0.9833	0.9834
mfeat-zer	0.7770	0.7500	0.7501
mice-prot	1.0000	1.0000	1.0000
milk	1.0000	1.0000	1.0000
mines	0.5265	0.4826	0.5125
mobile	0.9504	0.9466	0.9468
monks-1	0.9482	0.8911	0.8964
monks-3	0.9466	0.8926	0.8932
mushroom	1.0000	1.0000	1.0000
music	0.5228	0.4007	0.4004
MUT_ci300400a_cdk_ECFP2	0.8023	0.6045	0.6046
MUT_ci300400a_cdk_ECFP4	0.8120	0.6239	0.6239
MUT_ci300400a_cdk_ECFP6	0.7818	0.5625	0.5635
MUT_ci300400a_cdk_ESTATE	0.7622	0.5226	0.5244
MUT_ci300400a_cdk_EXTENDED	0.8132	0.6257	0.6263
MUT_ci300400a_cdk_FCFP2	0.8100	0.6200	0.6200
MUT_ci300400a_cdk_FCFP4	0.7818	0.5633	0.5635
MUT_ci300400a_cdk_FCFP6	0.7931	0.5858	0.5862
MUT_ci300400a_cdk_MACCS	0.8151	0.6302	0.6302
MUT_ci300400a_cdk_PUBCHEM	0.8572	0.7145	0.7145
MUT_ci300400a_cdk_STANDARD	0.7923	0.5844	0.5846
MUT_ci300400a_rdkit_descriptors	0.8087	0.6171	0.6173
myocardial	0.2547	0.2378	0.3669
naticusdroid	0.9728	0.9457	0.9457
nci9	0.3793	0.4000	0.4671
ncRNA10%	0.6794	0.8236	0.8269
neo	0.6948	0.3090	0.3662
new-thyroid	0.9026	0.8939	0.8985
new-thyroidT	1.0000	1.0000	1.0000
newspop	0.6648	0.3281	0.3296
NHANES_age_prediction	1.0000	1.0000	1.0000
nomao	0.9525	0.9050	0.9051
nursery	0.9594	0.9705	0.9706
obesity	0.9295	0.9170	0.9180
obs	0.9612	0.9448	0.9453
oh0-wc	0.9305	0.9206	0.9217
oh10-wc	0.8131	0.7824	0.7873
oh15-wc	0.8660	0.8388	0.8407
oh5-wc	0.8757	0.8379	0.8419
olive	0.9215	0.9118	0.9156
optdigits	0.9753	0.9703	0.9704
orlraws10P	1.0000	1.0000	1.0000
ozone1hr	0.4899	-0.0072	0.0000
p53-mutants10%	0.4992	0.0000	0.0000
parkinson	0.9828	0.9655	0.9655
particle	0.9182	0.8365	0.8365
pc1	0.4813	0.0000	0.0000
pcmac	0.3681	0.0000	0.0000
pediatric-leukemia	0.5881	0.6670	0.6814
pendigits	0.9935	0.9929	0.9929
period-10f	0.5950	0.1818	0.1890
persistence	0.7870	0.5736	0.5740
personalities	0.9780	0.9765	0.9765
pet-adoption	0.9269	0.8465	0.8537
phishing	0.9489	0.8957	0.8979
PhiUSIL10%	1.0000	1.0000	1.0000
phy	0.7050	0.4099	0.4101
Continued on next page			

Dataset	F1-macro	Kappa	MCC
pima	0.6575	0.2716	0.3107
pirvision	0.9736	0.9647	0.9647
placement	0.7877	0.5726	0.5754
plrx	0.4000	-0.1020	0.0000
polya	0.7438	0.4744	0.4869
popularity	0.5405	0.2374	0.2644
post-operative	0.4000	0.0000	0.0000
postures	0.9819	0.9776	0.9776
pred-tox_mutagen_ref-desc	0.6913	0.3824	0.3825
prestige	0.8889	0.8302	0.8462
primary-tumor	0.3148	0.3224	0.3320
processed	1.0000	1.0000	1.0000
profb	0.6447	0.0601	0.1760
promoters	0.9083	0.8000	0.8165
puc-rio	0.9921	0.9942	0.9943
pufs-1281%	0.4914	-0.0170	0.0000
pufs-6410%	0.4981	-0.0036	0.0000
pulsar	0.9510	0.9004	0.9020
raisin	0.9115	0.8222	0.8230
rejafada	1.0000	1.0000	1.0000
relathe	1.0000	1.0000	1.0000
rice	0.9867	0.9733	0.9734
rocket	0.6807	0.3612	0.3614
RT_IOT2022	0.9540	0.9959	0.9959
satimage	0.8904	0.8806	0.8817
scadi	0.6984	0.6316	0.6860
schiller	0.8333	0.6087	0.6614
sclerosis	1.0000	1.0000	1.0000
secom	0.4834	0.0000	0.0000
secondary_mushroom	1.0000	1.0000	1.0000
seeds	0.9553	0.9286	0.9317
segment	0.9589	0.9443	0.9450
segmentation	0.8474	0.6941	0.6947
segmentO	0.9913	0.9825	0.9827
seismic	0.4830	0.0000	0.0000
sens-2-gram	0.4648	0.0000	0.0000
sens-3-gram	0.6559	0.1245	0.2283
sens-4-gram	0.4640	-0.0052	0.0000
sensorless	0.9983	0.9981	0.9981
shoppers	0.7833	0.5267	0.5606
sick	0.8564	0.6843	0.7093
sirtuin6	1.0000	1.0000	1.0000
smarket	0.9921	0.9840	0.9841
smk_can_187	0.5748	0.1461	0.1495
smoking	0.7838	0.5673	0.5676
soil_pollution	0.1944	-0.0053	0.0000
solar-flare	0.5327	0.6548	0.6621
sonar	0.7185	0.4000	0.4364
soybean	0.9781	0.9839	0.9841
spam-detection	0.8600	0.7178	0.7197
spambase	0.9408	0.8807	0.8816
spect	0.5626	0.1176	0.1231
spectf	0.8168	0.6154	0.6325
spectrometer	0.4521	0.5602	0.5647
squash-unstored	1.0000	1.0000	1.0000
startup	0.9885	0.9767	0.9769
steel_industry	0.8886	0.8559	0.8559
stellar	0.9711	0.9552	0.9553
Continued on next page			

Dataset	F1-macro	Kappa	MCC
stock	0.8215	0.6267	0.6414
stockb	0.9956	0.9934	0.9934
streaming	0.9899	0.9798	0.9798
stress	1.0000	1.0000	1.0000
student-depression	0.8252	0.6462	0.6503
student-habits	0.1539	-0.0506	0.0000
student-lifestyle	0.3641	0.4173	0.4283
student-weekend	0.2568	0.1330	0.1561
student-workday	0.2261	0.0515	0.0961
studentap	0.5746	0.3981	0.4100
swarm_aligned	1.0000	1.0000	1.0000
swarm_flocking	0.9996	0.9992	0.9992
swarm_grouped	1.0000	1.0000	1.0000
tae	0.4714	0.2000	0.2100
telco-churn	0.8602	0.7140	0.7202
texture	0.9863	0.9840	0.9840
theorem	0.9916	0.9832	0.9833
thoracic	0.4598	0.0000	0.0000
Thyroid_Diff	0.9048	0.7912	0.8090
tis	0.8727	0.7381	0.7452
titanic	0.7934	0.5163	0.5813
tourist	0.5250	0.6364	0.6848
trains	0.3333	0.0000	0.0000
transfusion	0.5043	0.0072	0.0081
tuandromd	0.9854	0.9703	0.9707
turkish	0.7913	0.7000	0.7151
tvnews	0.9254	0.8506	0.8507
ur3_cobotops_grip	0.7426	0.3779	0.4549
ur3_cobotops_stop	0.7517	0.4854	0.4992
urban	0.8168	0.7732	0.7763
ustilago10%	0.4973	0.0000	0.0000
vehicle	0.7543	0.7114	0.7151
vote	0.8950	0.7686	0.7900
vowel	0.6558	0.5778	0.5838
wap-wc	0.5882	0.7603	0.7668
warpar10p	0.6263	0.6556	0.6736
warppie10p	1.0000	1.0000	1.0000
waveform	0.8403	0.7600	0.7609
weather-related	0.9829	0.9782	0.9783
weight-lift	0.9970	0.9965	0.9965
white-clover	0.5000	0.0000	0.0000
wifi-loc	0.9950	0.9933	0.9934
wilt	0.8938	0.7811	0.7869
wine	1.0000	1.0000	1.0000
winequality-red	0.3292	0.4862	0.4958
winequality-white	0.4638	0.4652	0.4707
winnipeg10%	0.9954	0.9930	0.9930
wisc.bc	0.9643	0.9261	0.9286
yale	0.6797	0.6667	0.6809
yeast	0.4913	0.4598	0.4673
yeastCYT-POX	0.9047	0.7897	0.8078
yeastEXC	0.6755	0.3211	0.3414
yeastME1	0.7662	0.3934	0.4949
yeastME2	0.4879	0.0000	0.0000
zip	0.9402	0.9385	0.9386

Table 66: Detailed results for RF 10

Dataset	F1-macro	Kappa	MCC
abalone	0.1508	0.0882	0.0889
abalone19	0.4971	-0.0102	0.0000
accelerometer	0.7210	0.4380	0.4390
ads	0.9430	0.8786	0.8822
adult	0.7949	0.5772	0.5969
advanced-iot	0.9923	0.9960	0.9955
AID_1431	0.4718	-0.0276	0.0000
AID_1431_KlekotaRothFingerprinter	0.4477	-0.1011	0.0000
AID_1431_MACCSFingerprinter	0.4690	-0.0390	0.0000
AID_1878	0.4348	-0.0954	0.0000
AID_602330	0.4832	-0.0169	0.0000
AID_652128	0.3120	0.0000	0.0000
AID1284red	0.5578	0.1134	0.1130
AID1608Morered	0.5736	0.1407	0.1452
AID1608red	0.4732	-0.0491	0.0000
AID362red	0.4879	-0.0201	0.0000
AID373AID439red	0.5003	-0.0003	0.0000
AID373red	0.5388	0.0235	0.0445
AID456red	0.4976	-0.0042	0.0000
AID604	0.6625	0.0571	0.1635
AID604AID644_AllRed	0.4915	-0.0019	0.0000
AID687AID721red	0.4950	-0.0011	0.0000
AID687red	0.4951	-0.0050	0.0000
AID688red	0.4955	-0.0086	0.0000
AID721morered	0.3996	-0.1739	0.0000
AID721red	0.3034	-0.3662	0.0000
AID746AID1284red	0.4977	-0.0019	0.0000
AID746red	0.5136	0.0260	0.0280
aids	0.8642	0.7301	0.7339
air_pollution	0.1510	0.0102	0.0137
alcohol	0.7207	0.7501	0.7483
all-aml	0.9922	1.0000	1.0000
anneal	0.8752	0.8666	0.8738
antivirus	1.0000	1.0000	1.0000
anuran-f-b	0.9571	0.9188	0.9299
anxiety	0.1060	0.0054	0.0054
apple-quality	0.8573	0.7146	0.7095
aps-failure	0.8380	0.6457	0.6725
arabidopsis1%	0.4940	0.0000	0.0000
arcene	0.7498	0.4888	0.4943
arrhythmia	0.7303	0.7430	0.7590
auction	0.9698	0.9329	0.9331
audiology	0.6737	0.7298	0.7462
audit-risk	0.9957	0.9980	0.9965
autism-adolescent	0.9974	0.9924	1.0000
autism-adult	0.9968	0.9972	0.9953
autism-child	1.0000	1.0000	1.0000
autos	0.8817	0.8136	0.8259
avila	0.9259	0.9799	0.9785
balance	0.6365	0.6250	0.6324
bank	0.7896	0.5498	0.5726
bankruptcy	1.0000	1.0000	1.0000
biodeg	0.8824	0.7533	0.7552
biomed	0.9968	1.0000	1.0000
body-perf	0.7252	0.6378	0.6436
Continued on next page			

Dataset	F1-macro	Kappa	MCC
brain-tumor	0.4910	-0.0150	0.0000
breast-cancer	0.6293	0.2394	0.2500
breast-cancer-ma	0.5377	0.0676	0.0689
breast-tissue	0.7125	0.6712	0.6809
bridges	0.5421	0.5955	0.6264
cad	1.0000	0.9909	1.0000
cancer	1.0000	1.0000	1.0000
cancer-uae	0.3297	-0.0322	0.0000
car-insurance	0.8103	0.6226	0.6236
cardiotocography-nsp	0.8375	0.7747	0.7730
cardiovascular	0.7441	0.4771	0.4750
cargo2k	1.0000	0.9969	0.9987
cars	0.6145	0.4859	0.4905
ccds10%	0.5703	0.0467	0.0884
cervical-B	0.7944	0.5794	0.5816
cervical-H	0.7845	0.4629	0.5514
cervical-S	0.7392	0.4683	0.4808
children-anemia	0.9045	0.9079	0.9038
chrom211%	0.4959	0.0000	0.0000
churn	0.7470	0.5159	0.5141
cjs	1.0000	0.9918	0.9917
ckd	0.9928	0.9906	0.9998
clave	0.6713	0.6823	0.6814
cll_sub_111	0.7984	0.5975	0.6073
cmc	0.5481	0.3265	0.3280
cnae-9	0.9114	0.9003	0.8888
codon_usage	0.7896	0.9032	0.9103
coil20	1.0000	0.9978	1.0000
college	0.9012	0.7842	0.7941
collins	0.8566	0.8255	0.8207
colon-tumor	0.8550	0.6655	0.7106
colposcopies-1	0.6974	0.3879	0.3877
colposcopies-2	0.6569	0.3032	0.3118
colposcopies-4	0.5696	0.1381	0.1376
colposcopies-5	0.5746	0.1398	0.1439
colposcopies-c	0.8547	0.6712	0.7074
column-2c	0.8633	0.7200	0.7254
column-3c	0.6869	0.6338	0.6347
connect-4	0.6274	0.4194	0.4902
coupon	0.7442	0.4847	0.4869
covtypeCD	0.9672	0.9257	0.9278
covtypeT	0.9149	0.8142	0.8212
crabs	0.8941	0.8662	0.8592
crowdsourced	0.8761	0.8937	0.8976
cryotherapy	0.5477	0.0996	0.1002
cultivars	0.5089	0.5479	0.5530
cybersecurity	0.2012	0.0395	0.0394
cyclopentane	0.8081	0.6193	0.6209
cylinder-bands	0.6610	0.3249	0.3251
datatrieve	0.3807	-0.1404	0.0000
dating	0.0928	-0.0082	0.0000
dbworld	1.0000	0.9994	0.9959
default	0.7285	0.4586	0.4553
dementia	1.0000	1.0000	1.0000
deposit	0.7795	0.5251	0.5508
depressed	0.5587	0.0998	0.1153
dermatology	0.9361	0.9366	0.9286
desharnais	0.3499	0.1110	0.1197
Continued on next page			

Dataset	F1-macro	Kappa	MCC
df_final	0.7486	0.5439	0.6180
DIA	0.7869	0.5511	0.5660
diagnosis	1.0000	0.9968	1.0000
diamonds	0.9913	0.9897	0.9960
diamonds_all	0.7434	0.6612	0.6643
dishonest	0.9923	0.9948	0.9959
dlbcl-nih	0.5495	0.0910	0.0976
dlbcl-stanford	0.7085	0.2847	0.4082
dna0.1%	0.4983	-0.0004	0.0000
drebin	0.9786	0.9614	0.9621
dropout	0.7121	0.6240	0.6263
ecoli	0.7439	0.8380	0.8315
ecoliCP-IM	1.0000	1.0000	1.0000
ecoliM	0.8807	0.7633	0.7605
ecoliMU	0.6606	0.2672	0.3136
ecoliOM	0.8526	0.6551	0.6923
ecommerce	0.2059	-0.0531	0.0000
euthyroid	0.8994	0.8038	0.8025
fakenews	0.5123	0.0341	0.0342
fbis-wc	0.8325	0.8422	0.8438
finance	0.5539	0.0998	0.0997
financial-risk	0.6994	0.8222	0.8207
flags	0.4092	0.4582	0.4786
forest	0.9094	0.8941	0.9027
gas	0.9909	0.9937	0.9976
gastrointestinal	0.8369	0.6954	0.7157
gender	0.4546	0.1656	0.1654
german	0.6677	0.3396	0.3445
gestures	0.9223	0.8904	0.8947
gina	0.9448	0.8909	0.8799
gisette	0.9675	0.9246	0.9288
glass	0.8457	0.7444	0.7560
glass-g2	0.9402	0.8682	0.8744
glassBWFP	0.8583	0.6705	0.7164
glassBWNFP	0.8331	0.6638	0.6684
glassContainers	0.9993	1.0000	1.0000
glassNW	0.9947	1.0000	0.9976
glassTableware	0.9987	0.9993	0.9969
GlaucomaM	0.7322	0.4752	0.4767
gli_85	1.0000	1.0000	0.9979
glioma	0.8286	0.7080	0.7520
glioma-grade	0.8661	0.7338	0.7401
green	0.4514	-0.0869	0.0000
gsalc	0.9934	1.0000	0.9953
haberman	0.6109	0.2099	0.2133
hapt	0.8714	0.9602	0.9525
har	0.9945	1.0000	0.9957
health-activity	0.3505	0.1333	0.2666
heart	0.7289	0.4348	0.4534
heart-c	0.9409	0.8690	0.8637
heart-failure	0.9820	0.9457	0.9478
heart-quantum	0.9250	0.8352	0.8515
hepatitis	0.8527	0.6671	0.7060
higher	0.1580	0.0780	0.0805
hinselmann	0.4093	-0.1533	0.0000
hitters	0.8760	0.7467	0.7516
hiv1-proteasa	0.8306	0.6500	0.6624
hiva	0.5512	0.1069	0.1082
Continued on next page			

Dataset	F1-macro	Kappa	MCC
horse	0.6180	0.3849	0.3816
hotel-reservartions	0.8881	0.7720	0.7751
hr	0.5449	0.0637	0.0789
htru2	0.9213	0.8395	0.8427
hypothyroid	0.6988	0.8296	0.8459
immuno-therapy	0.6731	0.3553	0.3571
ionosphere	0.9055	0.8029	0.8020
iris	0.9967	0.9953	1.0000
irish	0.9797	0.9546	0.9626
isolet	0.9054	0.8955	0.8957
jm1	0.6501	0.3001	0.3006
javowels	0.9700	0.9667	0.9616
kc1-class-level-numericdefect	0.2965	0.2257	0.2312
kc1-class-level-top5percentDF	0.4585	-0.0712	0.0000
kc2	0.7163	0.4241	0.4262
kdc-4007	0.7792	0.7457	0.7473
kddcup991%	0.7212	0.9894	0.9970
kidney	0.1779	0.0000	0.0000
kidney-disease	0.9985	0.9944	1.0000
la2s-wc	0.8674	0.8522	0.8492
labor	0.9926	0.9976	0.9960
leaf	0.6672	0.6876	0.6923
led24	0.7783	0.7131	0.7200
lenses	1.0000	0.9937	1.0000
letter	0.9533	0.9503	0.9451
linkage1%	0.7081	0.1894	0.3233
loan	0.9860	0.9827	0.9759
lrs	0.6609	0.7703	0.7694
lung_discrete	1.0000	1.0000	1.0000
lymphography	0.4954	0.4495	0.4529
lymphoma2	0.7942	0.8463	0.8612
machine-failure	0.9110	0.8206	0.8198
magic04	0.8642	0.7300	0.7290
malware	1.0000	1.0000	0.9948
mammography	0.8488	0.6846	0.6871
marketing	0.7505	0.4995	0.5016
mba	0.4815	0.3855	0.4252
mental-disorders	0.9332	0.8843	0.9038
messidor	0.6356	0.2705	0.2732
meter-A	0.7966	0.5255	0.5950
meter-B	1.0000	0.9999	1.0000
meter-C	0.9973	0.9973	0.9975
meter-D	0.9942	0.9926	0.9978
mfeat-fac	0.9728	0.9765	0.9681
mfeat-fou	0.8256	0.8065	0.8104
mfeat-kar	0.9654	0.9768	0.9657
mfeat-mor	0.7113	0.6791	0.6857
mfeat-pix	0.9831	0.9730	0.9744
mfeat-zer	0.7667	0.7365	0.7347
mice-prot	0.9943	1.0000	0.9984
milk	1.0000	1.0000	1.0000
mines	0.5196	0.4092	0.4148
mobile	0.9632	0.9550	0.9584
monks-1	0.8639	0.7044	0.7210
monks-3	0.9668	0.9265	0.9361
mushroom	0.9953	0.9962	0.9985
music	0.5368	0.4091	0.4140
MUT_ci300400a_cdk_ECFP2	0.7980	0.5860	0.5919
Continued on next page			

Dataset	F1-macro	Kappa	MCC
MUT_ci300400a_cdk_ECFP4	0.8112	0.6225	0.6249
MUT_ci300400a_cdk_ECFP6	0.7953	0.5913	0.5883
MUT_ci300400a_cdk_ESTATE	0.7403	0.4841	0.4916
MUT_ci300400a_cdk_EXTENDED	0.8343	0.6738	0.6735
MUT_ci300400a_cdk_FCFP2	0.7515	0.5037	0.5116
MUT_ci300400a_cdk_FCFP4	0.7806	0.5621	0.5620
MUT_ci300400a_cdk_FCFP6	0.7874	0.5759	0.5811
MUT_ci300400a_cdk_MACCS	0.8070	0.6132	0.6139
MUT_ci300400a_cdk_PUBCHEM	0.8340	0.6697	0.6781
MUT_ci300400a_cdk_STANDARD	0.8133	0.6219	0.6187
MUT_ci300400a_rdkit_descriptors	0.8206	0.6419	0.6457
myocardial	0.3053	0.4249	0.4875
naticusdroid	0.9728	0.9361	0.9342
nci9	0.7871	0.7928	0.8245
neo	0.7429	0.4608	0.4841
new-thyroid	0.9957	0.9972	0.9990
new-thyroidT	0.8931	0.7752	0.7949
newspop	0.6649	0.3292	0.3270
NHANES_age_prediction	0.9980	1.0000	0.9973
nomao	0.9608	0.9112	0.9128
nursery	0.9539	0.9659	0.9604
obesity	0.9262	0.9027	0.9115
obs	0.9726	0.9501	0.9585
oh0-wc	0.9324	0.8959	0.9020
oh10-wc	0.8212	0.7900	0.7986
oh15-wc	0.8979	0.8746	0.8806
oh5-wc	0.9062	0.8913	0.8863
olive	0.9332	0.9347	0.9366
optdigits	0.9626	0.9569	0.9674
orlraws10P	0.9960	0.9977	1.0000
ozonelhr	0.5938	0.1520	0.1750
p53-mutants10%	0.5036	0.0000	0.0000
parkinson	0.9887	0.9809	0.9872
pc1	0.7171	0.4274	0.4284
pcmac	0.4983	-0.0032	0.0000
pediatric-leukemia	0.7243	0.7414	0.7524
pendigits	0.9927	0.9873	0.9932
period-10f	0.5800	0.1425	0.1576
persistence	0.8280	0.6672	0.6701
personalities	0.9666	0.9738	0.9722
pet-adoption	0.9138	0.8247	0.8234
phishing	0.9574	0.9189	0.9183
PhiUSIIL10%	0.9988	1.0000	1.0000
phy	0.7247	0.4388	0.4436
pima	0.7202	0.4278	0.4356
pirvision	0.9695	0.9468	0.9475
placement	0.7697	0.5519	0.5504
plrx	0.3767	-0.1880	0.0000
polya	0.7630	0.5367	0.5363
popularity	0.4745	0.3094	0.3151
post-operative	0.3539	-0.1995	0.0000
postures	0.9836	0.9811	0.9838
pred-tox_mutagen_ref-desc	0.8405	0.6700	0.6834
prestige	0.8194	0.6693	0.7109
primary-tumor	0.4588	0.4294	0.4330
profb	0.6456	0.2873	0.2898
promoters	1.0000	0.9998	1.0000
pufs-1281%	0.4896	-0.0217	0.0000
Continued on next page			

Dataset	F1-macro	Kappa	MCC
pulsar	0.9357	0.8646	0.8686
raisin	0.9268	0.8481	0.8392
rejafada	0.8760	0.7243	0.7543
relathe	0.9940	0.9833	0.9885
rice	0.9854	0.9768	0.9697
rocket	0.7068	0.4160	0.4199
satimage	0.8925	0.8811	0.8916
scadi	0.6617	0.6327	0.6646
schiller	0.8379	0.6101	0.6571
sclerosis	1.0000	0.9963	1.0000
secom	0.4827	0.0000	0.0000
secondary_mushroom	1.0000	0.9993	1.0000
seeds	0.9496	0.9293	0.9314
segment	0.9630	0.9620	0.9585
segmentation	0.8374	0.6655	0.6704
segmentO	0.9673	0.9301	0.9394
seismic	0.6196	0.2335	0.2373
sens-2-gram	0.6402	0.2346	0.2667
sens-3-gram	0.6517	0.2306	0.2825
sens-4-gram	0.6325	0.2376	0.2595
sensorless	0.9981	1.0000	0.9961
shoppers	0.8010	0.5980	0.6045
sick	0.9084	0.8196	0.8185
sirtuin6	0.9994	1.0000	1.0000
smarket	0.9888	0.9840	0.9784
smk_can_187	0.6317	0.2643	0.2659
smoking	0.8008	0.5887	0.5988
soil_pollution	0.2089	0.0118	0.0119
solar-flare	0.6717	0.6526	0.6562
sonar	0.6530	0.2968	0.2994
soybean	0.9798	0.9617	0.9690
spam-detection	0.8846	0.7488	0.7576
spambase	0.9409	0.8793	0.8789
spect	0.5239	0.0383	0.0414
spectf	0.7633	0.5249	0.5277
spectrometer	0.6024	0.6515	0.6565
squash-unstored	0.9999	0.9954	1.0000
startup	0.9729	0.9525	0.9572
steel_industry	0.8997	0.8583	0.8634
stellar	0.9727	0.9530	0.9472
stock	0.8741	0.7515	0.7590
stockb	0.9886	0.9904	0.9976
streaming	0.9962	0.9867	0.9919
stress	0.9953	1.0000	1.0000
student-depression	0.8271	0.6550	0.6569
student-habits	0.1755	-0.0080	0.0000
student-lifestyle	0.3640	0.3260	0.3298
student-weekend	0.3223	0.1727	0.1763
student-workday	0.2215	0.2119	0.2233
studentap	0.5466	0.3026	0.3056
swarm_aligned	1.0000	1.0000	0.9993
swarm_flocking	1.0000	0.9964	1.0000
swarm_grouped	1.0000	0.9995	0.9956
tae	0.5403	0.2998	0.3007
telco-churn	0.8728	0.7490	0.7533
texture	0.9802	0.9755	0.9717
theorem	0.9969	0.9876	0.9865
thoracic	0.5661	0.1276	0.1276
Continued on next page			

Dataset	F1-macro	Kappa	MCC
Thyroid_Diff	0.9960	0.9957	0.9970
tis	0.8784	0.7589	0.7691
titanic	0.7009	0.3859	0.3918
tourist	0.5239	0.6329	0.6868
trains	0.3323	0.0000	0.0000
transfusion	0.5257	0.0480	0.0498
tuandromd	0.9627	0.9111	0.9175
turkish	0.7423	0.6691	0.6673
ur3_cobotops_grip	0.7417	0.4812	0.4855
ur3_cobotops_stop	0.8086	0.6081	0.6083
urban	0.8812	0.8411	0.8417
ustilago10%	0.4941	-0.0007	0.0000
vehicle	0.6918	0.6617	0.6687
vote	0.9385	0.8562	0.8599
vowel	0.6414	0.6093	0.6180
wap-wc	0.7536	0.8113	0.8067
warpar10p	0.7304	0.7387	0.7482
warppie10p	1.0000	0.9997	0.9962
waveform	0.8509	0.7803	0.7751
weather-related	0.9695	0.9699	0.9582
weight-lift	1.0000	1.0000	0.9968
white-clover	0.7563	0.3985	0.4985
wifi-loc	0.9914	0.9886	0.9887
wilt	0.8728	0.7398	0.7476
wine	0.9985	0.9985	0.9999
winequality-red	0.3033	0.3682	0.3701
winequality-white	0.4312	0.4282	0.4293
winnipeg10%	0.9908	0.9872	0.9955
wisc.bc	0.9271	0.8482	0.8583
yale	0.7410	0.7975	0.8077
yeast	0.4666	0.4553	0.4620
yeastCYT-POX	0.8137	0.5467	0.6138
yeastEXC	0.6670	0.3084	0.3284
yeastME1	0.8815	0.7141	0.7477
yeastME2	0.6424	0.2774	0.2758
zip	0.9357	0.9286	0.9246

Table 67: Detailed results for SVC 10

Dataset	F1-macro	Kappa	MCC
abalone	0.1089	0.0683	0.0753
abalone19	0.4973	0.0000	0.0000
accelerometer	0.4968	0.0000	0.0000
ads	0.9639	0.9228	0.9198
advanced-iot	0.9961	0.9955	0.9914
AID_1431	0.4749	0.0000	0.0000
AID_1431_KlekotaRothFingerprinter	0.4757	0.0000	0.0000
AID_1431_MACCSFingerprinter	0.4738	0.0000	0.0000
AID_1878	0.6629	0.0832	0.2074
AID_602330	0.4870	0.0000	0.0000
AID_652128	0.3118	0.0000	0.0000
AID1284red	0.4639	0.0000	0.0000
AID1608Mored	0.4830	0.0000	0.0000
AID1608red	0.4863	0.0000	0.0000
AID362red	0.4953	0.0000	0.0000
AID456red	0.4995	0.0000	0.0000
AID687AID721red	0.4984	0.0000	0.0000
AID688red	0.4971	0.0000	0.0000
AID721mored	0.4419	0.0000	0.0000
AID721red	0.4385	0.0000	0.0000
aids	0.8229	0.6466	0.6531
air_pollution	0.0825	0.0000	0.0000
alcohol	0.5607	0.6361	0.6550
all-aml	1.0000	0.9941	0.9966
anneal	0.9590	0.9048	0.9080
antivirus	1.0000	0.9965	0.9992
anuran-f-b	0.9940	1.0000	0.9977
anxiety	0.1055	0.0054	0.0054
apple-quality	0.9063	0.8027	0.8088
arcene	0.7435	0.4840	0.4927
arrhythmia	0.5362	0.5291	0.5733
auction	0.8043	0.5902	0.6029
audiology	0.9704	0.9403	0.9509
audit-risk	0.9440	0.8915	0.8957
autism-adolescent	0.8999	0.7913	0.8048
autism-adult	0.9870	0.9623	0.9555
autism-child	0.9671	0.9295	0.9371
autos	0.9579	0.9378	0.9308
avila	0.9630	0.9870	0.9756
balance	0.6202	0.8105	0.8269
bank	0.7255	0.4471	0.4649
bankruptcy	0.9995	1.0000	1.0000
biodeg	0.8380	0.6733	0.6738
biomed	0.9485	0.8955	0.8987
body-perf	0.7163	0.6186	0.6214
brain-tumor	0.5192	0.0420	0.0419
breast-cancer	0.6492	0.2457	0.2930
breast-cancer-ma	0.5306	0.0679	0.0689
breast-tissue	0.7511	0.6748	0.6941
bridges	0.6529	0.6989	0.7101
cad	1.0000	0.9916	1.0000
cancer	0.9804	0.9706	0.9707
cancer-uae	0.2196	-0.0018	0.0000
car-insurance	0.8051	0.6103	0.6022
cardiotocography-nsp	0.7937	0.7152	0.7169
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Dataset	F1-macro	Kappa	MCC
cardiovascular	0.7347	0.4549	0.4665
cargo2k	1.0000	0.9940	0.9965
cars	0.6434	0.4895	0.5101
cervical-B	0.4818	0.0000	0.0000
cervical-H	0.7081	0.4122	0.4162
cervical-S	0.8051	0.5193	0.5989
children-anemia	0.6534	0.8229	0.8199
churn	0.7142	0.3615	0.4170
cjs	0.9940	1.0000	0.9924
ckd	0.9982	1.0000	1.0000
clave	0.6008	0.7423	0.7406
cll_sub_111	0.6349	0.3009	0.3055
cmc	0.5260	0.2897	0.2927
cnae-9	0.9027	0.8852	0.8808
codon_usage	0.7974	0.9244	0.9274
coil20	0.9916	0.9967	1.0000
college	0.9074	0.8015	0.8020
collins	0.5789	0.6848	0.6972
colon-tumor	0.8519	0.6666	0.7060
colposcopies-1	0.5495	0.0964	0.0984
colposcopies-2	0.6524	0.1102	0.2431
colposcopies-4	0.5714	0.1355	0.1380
colposcopies-5	0.4517	0.0000	0.0000
colposcopies-c	0.6731	0.2969	0.3385
column-2c	0.9267	0.8505	0.8470
column-3c	0.6994	0.6345	0.6363
coupon	0.7292	0.4594	0.4573
covtypeCD	0.9791	0.9632	0.9567
covtypeT	0.9320	0.8677	0.8719
crabs	1.0000	0.9992	1.0000
crowdsourced	0.8877	0.9192	0.9214
cryotherapy	0.8038	0.5274	0.5972
cultivars	0.5586	0.6105	0.6164
cybersecurity	0.0496	0.0000	0.0000
cyclopentane	0.7325	0.4701	0.4728
cylinder-bands	0.7517	0.4860	0.5041
datatrieve	0.4827	0.0000	0.0000
dbworld	0.9909	1.0000	1.0000
default	0.7094	0.4040	0.4258
dementia	1.0000	0.9936	0.9985
depressed	0.4552	0.0000	0.0000
dermatology	0.9729	0.9704	0.9690
desharnais	0.4666	0.3329	0.3617
df_final	0.7018	0.5079	0.5414
DIA	0.7576	0.4594	0.5070
diagnosis	0.9929	0.9958	0.9987
diamonds	0.9705	0.9721	0.9689
diamonds_all	0.7793	0.6869	0.7030
dishonest	1.0000	1.0000	0.9991
dlbcl-nih	0.6496	0.2921	0.2973
dlbcl-stanford	0.7022	0.2840	0.4081
drebin	0.9799	0.9657	0.9636
dropout	0.6632	0.5828	0.5870
ecoli	0.6907	0.7504	0.7584
ecoliCP-IM	0.9963	0.9995	0.9976
ecoliM	0.8387	0.6700	0.6673
ecoliMU	0.7624	0.5251	0.5262
ecoliOM	0.8547	0.6533	0.6953
Continued on next page			

Dataset	F1-macro	Kappa	MCC
ecommerce	0.2055	-0.0525	0.0000
euthyroid	0.9024	0.8046	0.8104
fakenews	0.4924	-0.0098	0.0000
fbis-wc	0.7368	0.7754	0.7856
finance	0.9245	0.8342	0.8562
financial-risk	0.5457	0.7583	0.7567
flags	0.4635	0.6765	0.6937
forest	0.8918	0.8628	0.8675
gas	0.9908	0.9776	0.9879
gastrointestinal	0.8750	0.7992	0.7948
gender	0.3800	0.1371	0.1525
german	0.6636	0.3025	0.3382
gestures	0.8750	0.8339	0.8324
gina	0.9348	0.8817	0.8781
gisette	0.9661	0.9492	0.9376
glass	0.6868	0.5867	0.5950
glass-g2	0.7363	0.4634	0.4661
glassBWFP	0.7164	0.2929	0.4127
glassBWNFP	0.7888	0.4986	0.5786
glassContainers	0.4768	0.0000	0.0000
glassNW	0.9350	0.8603	0.8700
glassTableware	0.4896	0.0000	0.0000
GlaucomaM	0.7903	0.5809	0.5794
gli_85	0.9966	1.0000	1.0000
glioma	0.8353	0.7108	0.7505
glioma-grade	0.8593	0.7071	0.7148
green	0.6083	0.2118	0.2168
gsalc	1.0000	1.0000	0.9959
haberman	0.6063	0.1895	0.2057
hapt	0.8432	0.9481	0.9487
har	0.9734	0.9810	0.9804
health-activity	0.2159	0.0000	0.0000
heart	0.8088	0.5958	0.6209
heart-c	0.9388	0.8558	0.8667
heart-failure	0.9725	0.9491	0.9418
heart-quantum	0.9202	0.8312	0.8389
hepatitis	0.7254	0.4431	0.4520
higher	0.0832	0.0781	0.0828
hinselmann	0.4469	0.0000	0.0000
hitters	0.9328	0.8786	0.8714
hiv1-proteasa	0.8097	0.6075	0.6134
hiva	0.6199	0.1102	0.1726
horse	0.3492	0.1164	0.1545
hotel-reservartions	0.8754	0.7586	0.7528
hr	0.4591	0.0000	0.0000
htru2	0.9274	0.8459	0.8582
hypothyroid	0.6331	0.7304	0.7320
immuno-therapy	0.4015	-0.1743	0.0000
ionosphere	0.9334	0.8577	0.8695
iris	0.9302	0.8983	0.9039
irish	0.9929	1.0000	1.0000
isolet	0.9487	0.9448	0.9532
jm1	0.6184	0.1602	0.2093
jvowels	0.9895	0.9878	0.9869
kc1-class-level-numericdefect	0.1626	0.0000	0.0000
kc1-class-level-top5percentDF	0.4824	0.0000	0.0000
kc2	0.6039	0.1723	0.2031
kidney	0.1766	0.0000	0.0000
Continued on next page			

Dataset	F1-macro	Kappa	MCC
kidney-disease	0.9768	0.9501	0.9476
labor	0.9982	1.0000	0.9951
leaf	0.6574	0.6924	0.6988
led24	0.7131	0.6614	0.6664
lenses	0.1667	0.0000	0.0000
letter	0.9620	0.9627	0.9674
linkage1%	0.9540	0.8897	0.8677
loan	0.9193	0.8379	0.8400
lrs	0.6421	0.8154	0.8267
lung_discrete	0.7697	0.8437	0.8507
lymphography	0.4921	0.4498	0.4543
lymphoma2	0.7915	0.8438	0.8583
machine-failure	0.9022	0.8089	0.8015
magic04	0.8679	0.7115	0.7217
malware	0.9970	0.9931	0.9963
mammography	0.8236	0.6470	0.6429
marketing	0.7734	0.4265	0.5194
mba	0.3040	0.0000	0.0000
mental-disorders	0.8728	0.7776	0.8023
messidor	0.7192	0.4308	0.4353
meter-A	0.8049	0.5314	0.5997
meter-B	1.0000	1.0000	1.0000
meter-C	0.9297	0.9235	0.9326
meter-D	0.8715	0.8438	0.8443
mfeat-fac	0.9847	0.9842	0.9796
mfeat-fou	0.8231	0.7995	0.8095
mfeat-kar	0.9822	0.9756	0.9813
mfeat-mor	0.7117	0.6826	0.6900
mfeat-pix	0.9821	0.9824	0.9835
mfeat-zer	0.8387	0.8216	0.8255
mice-prot	0.9973	0.9995	0.9971
milk	0.9960	1.0000	1.0000
mines	0.5404	0.4146	0.4233
mobile	0.8667	0.8622	0.8579
monks-1	0.9067	0.8168	0.8248
monks-3	0.9604	0.9348	0.9331
mushroom	1.0000	0.9950	1.0000
music	0.5291	0.3989	0.4133
MUT_ci300400a_cdk_ECFP2	0.8146	0.6195	0.6206
MUT_ci300400a_cdk_ECFP4	0.8301	0.6542	0.6549
MUT_ci300400a_cdk_ECFP6	0.7942	0.5859	0.5839
MUT_ci300400a_cdk_ESTATE	0.7484	0.5043	0.5058
MUT_ci300400a_cdk_EXTENDED	0.8284	0.6699	0.6678
MUT_ci300400a_cdk_FCFP2	0.8246	0.6426	0.6435
MUT_ci300400a_cdk_FCFP4	0.7909	0.5943	0.5894
MUT_ci300400a_cdk_FCFP6	0.7898	0.5750	0.5740
MUT_ci300400a_cdk_MACCS	0.8242	0.6432	0.6422
MUT_ci300400a_cdk_PUBCHEM	0.8543	0.7063	0.7054
MUT_ci300400a_cdk_STANDARD	0.8113	0.6297	0.6312
MUT_ci300400a_rdkit_descriptors	0.8078	0.6187	0.6214
myocardial	0.2444	0.1837	0.3175
naticusdroid	0.9715	0.9341	0.9283
nci9	0.7927	0.7930	0.8309
neo	0.6761	0.1872	0.2937
new-thyroid	0.9306	0.8832	0.8994
new-thyroidT	0.9925	0.9944	1.0000
NHANES_age_prediction	0.9569	0.9170	0.9138
nursery	0.9898	0.9932	0.9928
Continued on next page			

Dataset	F1-macro	Kappa	MCC
obesity	0.8629	0.8365	0.8447
obs	1.0000	0.9974	0.9985
oh0-wc	0.7451	0.7342	0.7475
oh10-wc	0.6354	0.6270	0.6286
oh15-wc	0.6180	0.6375	0.6412
oh5-wc	0.6745	0.6476	0.6537
olive	0.9402	0.9334	0.9378
optdigits	0.9824	0.9802	0.9814
orlraws10P	0.7458	0.7790	0.7993
ozone1hr	0.4886	-0.0072	0.0000
p53-mutants10%	0.4991	0.0000	0.0000
parkinson	0.9667	0.9436	0.9457
pc1	0.4810	0.0000	0.0000
pcmac	0.5235	0.0120	0.0296
pendigits	0.9945	1.0000	0.9931
period-10f	0.7557	0.4027	0.4996
persistence	0.7839	0.5579	0.5685
pet-adoption	0.9122	0.8164	0.8297
phishing	0.9478	0.9144	0.9071
PhiUSIL10%	0.9952	0.9933	0.9967
pima	0.7008	0.3762	0.4067
pirvision	0.9706	0.9649	0.9621
placement	0.7870	0.5657	0.5696
plrx	0.4189	0.0000	0.0000
polya	0.7546	0.5207	0.5251
post-operative	0.3989	0.0000	0.0000
pred-tox_mutagen_ref-desc	0.6612	0.3226	0.3293
prestige	0.9963	0.9973	0.9998
primary-tumor	0.3497	0.4245	0.4482
profb	0.7268	0.4439	0.4478
promoters	0.9103	0.7996	0.8127
pulsar	0.9237	0.8552	0.8543
raisin	0.8949	0.7981	0.7954
rejafada	0.4926	0.0000	0.0000
relathe	0.9813	0.9576	0.9648
rice	0.9790	0.9679	0.9683
rocket	0.6404	0.2953	0.2923
satimage	0.8867	0.8772	0.8730
scadi	0.6621	0.6329	0.6644
schiller	0.8268	0.6057	0.6576
sclerosis	0.9978	0.9974	0.9960
secom	0.4816	0.0000	0.0000
seeds	0.9144	0.8493	0.8691
segment	0.9495	0.9311	0.9324
segmentation	0.8048	0.6053	0.6072
segmentO	0.9916	0.9813	0.9838
seismic	0.4790	-0.0074	0.0000
sens-2-gram	0.4664	0.0000	0.0000
sens-3-gram	0.5914	0.0553	0.1125
shoppers	0.7636	0.4996	0.5249
sick	0.7696	0.5038	0.5317
sirtuin6	0.9961	0.9950	0.9981
smarket	0.9830	0.9657	0.9732
smk_can_187	0.7984	0.5768	0.5895
smoking	0.7478	0.5235	0.5127
soil_pollution	0.0684	0.0000	0.0000
solar-flare	0.5686	0.6654	0.6783
sonar	0.7534	0.5024	0.5007
Continued on next page			

Dataset	F1-macro	Kappa	MCC
soybean	0.9766	0.9817	0.9832
spam-detection	0.8539	0.7061	0.7153
spambase	0.8933	0.8007	0.7938
spect	0.4438	0.0000	0.0000
spectf	0.8209	0.6097	0.6319
spectrometer	0.6061	0.6799	0.6725
squash-unstored	0.9977	1.0000	1.0000
startup	0.9940	0.9667	0.9747
steel_industry	0.8339	0.7817	0.7780
stellar	0.9577	0.9651	0.9487
stock	0.8060	0.6073	0.6172
stockb	0.9903	0.9982	1.0000
streaming	0.9048	0.8162	0.8126
stress	1.0000	1.0000	0.9995
student-depression	0.8292	0.6475	0.6542
student-habits	0.1099	0.0000	0.0000
student-lifestyle	0.3255	0.3539	0.3608
student-weekend	0.1120	0.0000	0.0000
student-workday	0.1642	0.0000	0.0000
studentap	0.4415	0.1732	0.1724
tae	0.5724	0.2996	0.3172
telco-churn	0.8729	0.7503	0.7496
texture	1.0000	0.9975	0.9921
theorem	1.0000	1.0000	0.9956
thoracic	0.4557	0.0000	0.0000
Thyroid_Diff	0.9387	0.8630	0.8738
titanic	0.7873	0.5143	0.5806
tourist	0.5263	0.6329	0.6843
trains	0.9956	1.0000	0.9970
transfusion	0.5353	0.0710	0.0727
tuandromd	0.9845	0.9668	0.9566
turkish	0.8260	0.7692	0.7675
ur3_cobotops_grip	0.7601	0.4283	0.4986
ur3_cobotops_stop	0.4855	0.0000	0.0000
urban	0.8383	0.7942	0.7951
vehicle	0.8061	0.7645	0.7693
vote	0.9326	0.8565	0.8618
vowel	0.6851	0.5998	0.6141
wap-wc	0.5297	0.7278	0.7333
warp10p	0.8275	0.8269	0.8392
warppie10p	0.9988	1.0000	0.9971
waveform	0.8321	0.7564	0.7557
weather-related	0.9735	0.9646	0.9660
white-clover	0.2498	-0.4958	0.0000
wifi-loc	0.9952	0.9847	0.9804
wilt	0.8584	0.7223	0.7252
wine	0.9989	1.0000	0.9956
winequality-red	0.3039	0.3988	0.4064
winequality-white	0.4169	0.4002	0.4213
wisc.bc	0.9730	0.9641	0.9693
yale	0.7693	0.8040	0.8021
yeast	0.4123	0.3954	0.4014
yeastCYT-POX	0.9038	0.7845	0.8131
yeastEXC	0.4924	0.0000	0.0000
yeastME1	0.7458	0.4880	0.4841
yeastME2	0.4894	0.0000	0.0000
zip	0.9570	0.9533	0.9637

Table 68: Detailed results for RotationForest 10

Dataset	F1-macro	Kappa	MCC
abalone	0.1523	0.0804	0.0810
abalone19	0.4905	-0.0102	0.0000
accelerometer	0.7261	0.4470	0.4481
ads	0.9397	0.8664	0.8726
adult	0.8025	0.5734	0.5962
advanced-iot	1.0000	0.9992	0.9975
AID_1431	0.4751	-0.0276	0.0000
AID_1431_KlekotaRothFingerprinter	0.4470	-0.1084	0.0000
AID_1431_MACCSFingerprinter	0.4675	-0.0387	0.0000
AID_1878	0.4822	-0.0227	0.0000
AID_602330	0.4855	-0.0169	0.0000
AID_652128	0.3107	0.0000	0.0000
AID1284red	0.4539	-0.0483	0.0000
AID1608Morered	0.5418	0.0804	0.0805
AID1608red	0.4738	-0.0487	0.0000
AID362red	0.4891	-0.0205	0.0000
AID456red	0.4970	-0.0040	0.0000
AID604AID644_AllRed	0.4930	-0.0019	0.0000
AID687AID721red	0.4961	-0.0011	0.0000
AID687red	0.4956	-0.0049	0.0000
AID688red	0.4933	-0.0083	0.0000
AID721morered	0.4004	-0.1742	0.0000
AID721red	0.3595	-0.2846	0.0000
aids	0.8527	0.6925	0.6900
air_pollution	0.1854	0.0221	0.0308
alcohol	0.7264	0.7641	0.7619
all-aml	0.9990	0.9975	0.9980
anneal	0.8473	0.8096	0.8194
antivirus	0.9996	0.9952	0.9930
anuran-f-b	0.9589	0.9151	0.9269
anxiety	0.0699	-0.0412	0.0000
apple-quality	0.8461	0.6952	0.6920
arabidopsis1%	0.4984	-0.0011	0.0000
arcene	0.7997	0.5961	0.6116
arrhythmia	0.6357	0.6231	0.6458
auction	0.9715	0.9258	0.9300
audiology	0.6450	0.7884	0.7913
audit-risk	0.9965	1.0000	1.0000
autism-adolescent	1.0000	1.0000	1.0000
autism-adult	0.9937	0.9984	0.9961
autism-child	1.0000	1.0000	0.9955
autos	0.7526	0.6787	0.6797
avila	0.9305	0.9754	0.9692
balance	0.6378	0.6294	0.6345
bank	0.7843	0.5433	0.5751
bankruptcy	1.0000	0.9978	0.9938
biodeg	0.8779	0.7567	0.7572
biomed	1.0000	1.0000	0.9963
body-perf	0.7293	0.6376	0.6458
brain-tumor	0.4852	-0.0291	0.0000
breast-cancer	0.6549	0.2929	0.3002
breast-cancer-ma	0.7272	0.4566	0.4665
breast-tissue	0.7124	0.6776	0.6828
bridges	0.7842	0.8524	0.8669
cad	1.0000	0.9970	0.9954
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Dataset	F1-macro	Kappa	MCC
cancer	1.0000	1.0000	0.9991
cancer-uae	0.3175	-0.0329	0.0000
car-insurance	0.8063	0.6153	0.6198
cardiotocography-nsp	0.8388	0.7781	0.7750
cardiovascular	0.7272	0.4700	0.4638
cargo2k	1.0000	0.9916	0.9942
cars	0.6539	0.5275	0.5348
cervical-B	0.8590	0.7052	0.7118
cervical-H	0.8031	0.5009	0.5738
cervical-S	0.7405	0.4718	0.4779
children-anemia	0.8681	0.9012	0.9017
chrom211%	0.4961	0.0000	0.0000
churn	0.7569	0.5225	0.5230
cjs	0.9961	0.9893	0.9854
ckd	0.9978	0.9963	0.9994
clave	0.6865	0.6866	0.6859
cll_sub_111	0.6314	0.3044	0.3061
cmc	0.5464	0.3319	0.3338
cnae-9	0.9522	0.9576	0.9548
codon_usage	0.7916	0.9176	0.9131
coil20	1.0000	0.9931	0.9987
college	0.9146	0.8164	0.8149
collins	0.8688	0.8215	0.8254
colon-tumor	0.8477	0.6633	0.7107
colposcopies-1	0.6486	0.2972	0.2994
colposcopies-2	0.6514	0.2790	0.3010
colposcopies-4	0.5995	0.1923	0.1930
colposcopies-5	0.6257	0.2064	0.2342
colposcopies-c	0.8568	0.6707	0.7101
column-2c	0.8538	0.7187	0.7254
column-3c	0.7296	0.6844	0.6894
coupon	0.7402	0.4781	0.4758
covtypeCD	0.9609	0.9256	0.9147
covtypeT	0.9052	0.8243	0.8301
crabs	0.8953	0.8716	0.8659
crowdsourced	0.8709	0.8875	0.8949
cryotherapy	0.7705	0.5500	0.5464
cultivars	0.4682	0.5159	0.5216
cybersecurity	0.2176	0.0587	0.0595
cyclopentane	0.8161	0.6265	0.6268
cylinder-bands	0.7427	0.4827	0.4871
datatrieve	0.4379	-0.1141	0.0000
dbworld	1.0000	0.9932	1.0000
default	0.7202	0.4363	0.4355
dementia	0.9937	1.0000	0.9952
deposit	0.7855	0.5286	0.5537
depressed	0.5672	0.1248	0.1351
dermatology	0.9482	0.9381	0.9353
desharnais	0.3510	0.0905	0.1090
df_final	0.7543	0.5459	0.6158
DIA	0.6863	0.3797	0.3852
diagnosis	1.0000	0.9967	0.9983
diamonds	0.9934	0.9974	0.9934
diamonds_all	0.7455	0.6598	0.6653
dishonest	1.0000	1.0000	0.9967
dlbcl-nih	0.5053	0.0150	0.0154
dlbcl-stanford	0.8305	0.6097	0.6625
drebin	0.9810	0.9541	0.9536

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Dataset	F1-macro	Kappa	MCC
dropout	0.7189	0.6175	0.6244
ecoli	0.7427	0.8354	0.8414
ecoliCP-IM	0.9970	0.9970	1.0000
ecoliM	0.8256	0.6327	0.6546
ecoliMU	0.6468	0.2277	0.2803
ecoliOM	0.8513	0.6535	0.6948
ecommerce	0.2478	0.0009	0.0009
euthyroid	0.9002	0.8045	0.8045
fakenews	0.5424	0.0897	0.0896
fbis-wc	0.8384	0.8466	0.8406
finance	0.5858	0.1702	0.1720
financial-risk	0.6862	0.8212	0.8236
flags	0.4797	0.6778	0.6911
forest	0.9107	0.8920	0.8866
gas	0.9980	0.9889	0.9962
gastrointestinal	0.7075	0.4912	0.5143
gender	0.4543	0.1479	0.1485
german	0.6834	0.3609	0.3647
gestures	0.9203	0.8914	0.8907
gina	0.9420	0.8779	0.8898
gisette	0.9578	0.9333	0.9244
glass	0.8466	0.7426	0.7621
glass-g2	0.9387	0.8767	0.8778
glassBWFP	0.8511	0.6694	0.7148
glassBWNFP	0.8413	0.6368	0.6887
glassContainers	1.0000	0.9933	0.9947
glassNW	1.0000	1.0000	0.9957
glassTableware	0.4881	0.0000	0.0000
GlaucomaM	0.8001	0.5834	0.5961
gli.85	0.8680	0.7151	0.7479
glioma	0.8251	0.7126	0.7450
glioma-grade	0.8898	0.7878	0.7843
green	0.4531	-0.0876	0.0000
gsalc	0.9966	1.0000	1.0000
haberman	0.6617	0.3141	0.3243
hapt	0.8977	0.9549	0.9533
har	1.0000	0.9969	0.9932
health-activity	0.3358	0.0687	0.1860
heart	0.7271	0.4380	0.4516
heart-c	0.8691	0.7309	0.7337
heart-failure	0.9749	0.9645	0.9578
heart-quantum	0.9095	0.8026	0.8164
hepatitis	0.9091	0.8152	0.8318
higher	0.1250	0.0118	0.0122
hinselmann	0.4138	-0.1542	0.0000
hitters	0.8713	0.7449	0.7486
hiv1-proteasa	0.8281	0.6495	0.6579
hiva	0.5462	0.0960	0.0965
horse	0.6096	0.3577	0.3630
hotel-reservartions	0.8927	0.7648	0.7702
hr	0.5928	0.1214	0.1608
htru2	0.9237	0.8317	0.8390
hypothyroid	0.7028	0.8616	0.8664
immuno-therapy	0.8761	0.7273	0.7575
ionosphere	0.9095	0.8014	0.8063
iris	1.0000	0.9936	0.9976
irish	1.0000	1.0000	0.9980
isolet	0.9104	0.8967	0.8950
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Dataset	F1-macro	Kappa	MCC
jm1	0.6611	0.3192	0.3199
jvowels	0.9699	0.9735	0.9711
kc1-class-level-numericdefect	0.3008	0.2216	0.2312
kc1-class-level-top5percentDF	0.4646	-0.0710	0.0000
kc2	0.7048	0.4217	0.4199
kdc-4007	0.7794	0.7459	0.7463
kddcup991%	0.7309	0.9977	0.9917
kidney	0.1774	0.0000	0.0000
kidney-disease	0.9722	0.9491	0.9472
la2s-wc	0.8747	0.8666	0.8631
labor	0.8546	0.6644	0.7042
leaf	0.6659	0.6881	0.6986
led24	0.7320	0.6590	0.6651
lenses	0.9993	0.9988	1.0000
letter	0.9498	0.9407	0.9453
linkage1%	0.9366	0.8832	0.8845
loan	0.9840	0.9708	0.9654
lrs	0.8392	0.7708	0.7690
lung_discrete	1.0000	0.9930	0.9958
lymphography	0.4950	0.4519	0.4550
lymphoma2	0.5972	0.6849	0.7164
machine-failure	0.9083	0.8084	0.7993
magic04	0.8615	0.7198	0.7189
malware	1.0000	0.9964	1.0000
mammography	0.8283	0.6622	0.6613
marketing	0.7442	0.4841	0.4900
mba	0.4855	0.3908	0.4266
mental-disorders	0.9259	0.8926	0.8941
messidor	0.6451	0.2865	0.2908
meter-A	0.6251	0.2513	0.2596
meter-B	0.9944	0.9954	0.9903
meter-C	0.9960	1.0000	1.0000
meter-D	0.9106	0.9215	0.9323
mfeat-fac	0.9531	0.9536	0.9544
mfeat-fou	0.8063	0.7849	0.7776
mfeat-kar	0.9700	0.9633	0.9704
mfeat-mor	0.7100	0.6790	0.6805
mfeat-pix	0.9693	0.9695	0.9708
mfeat-zer	0.7719	0.7306	0.7439
mice-prot	1.0000	0.9918	0.9992
milk	1.0000	1.0000	0.9968
mines	0.5201	0.4103	0.4138
mobile	0.9681	0.9666	0.9629
monks-1	0.8974	0.7772	0.7916
monks-3	0.9792	0.9645	0.9623
mushroom	0.9913	0.9986	0.9952
music	0.5378	0.4107	0.4089
MUT_ci300400a_cdk_ECFP2	0.7836	0.5695	0.5772
MUT_ci300400a_cdk_ECFP4	0.8077	0.6097	0.6115
MUT_ci300400a_cdk_ECFP6	0.7938	0.5989	0.5936
MUT_ci300400a_cdk_ESTATE	0.7362	0.4682	0.4749
MUT_ci300400a_cdk_EXTENDED	0.8372	0.6807	0.6811
MUT_ci300400a_cdk_FCFP2	0.7491	0.5122	0.5225
MUT_ci300400a_cdk_FCFP4	0.7825	0.5579	0.5612
MUT_ci300400a_cdk_FCFP6	0.7861	0.5758	0.5748
MUT_ci300400a_cdk_MACCS	0.8115	0.6433	0.6365
MUT_ci300400a_cdk_PUBCHEM	0.8376	0.6711	0.6701
MUT_ci300400a_cdk_STANDARD	0.8058	0.6108	0.6124

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Dataset	F1-macro	Kappa	MCC
MUT_ci300400a_rdkit_descriptors	0.8218	0.6453	0.6425
myocardial	0.2942	0.3700	0.4557
naticusdroid	0.9628	0.9431	0.9374
nci9	0.7846	0.8026	0.8298
neo	0.6792	0.1856	0.2912
new-thyroid	1.0000	1.0000	0.9993
new-thyroidT	0.8990	0.7717	0.7943
newspop	0.6657	0.3382	0.3419
NHANES_age_prediction	0.9999	0.9958	0.9957
nursery	0.9484	0.9677	0.9601
obesity	0.9400	0.9321	0.9268
obs	0.9681	0.9430	0.9397
oh0-wc	0.8964	0.8788	0.8780
oh10-wc	0.7978	0.7903	0.7832
oh15-wc	0.8930	0.8761	0.8756
oh5-wc	0.9012	0.8737	0.8806
olive	0.9347	0.9312	0.9278
optdigits	0.9599	0.9484	0.9492
orlraws10P	0.9983	0.9962	0.9994
ozone1hr	0.5933	0.1518	0.1765
p53-mutants10%	0.5004	0.0000	0.0000
parkinson	0.9772	0.9648	0.9564
pc1	0.7155	0.4244	0.4289
pcmac	0.4520	-0.0955	0.0000
pediatric-leukemia	0.7225	0.7389	0.7522
pendigits	0.9845	0.9927	0.9890
period-10f	0.6558	0.3079	0.3162
persistency	0.8174	0.6275	0.6349
pet-adoption	0.9134	0.8257	0.8266
phishing	0.9649	0.9181	0.9165
PhiUSIL10%	0.9904	1.0000	1.0000
phy	0.7192	0.4318	0.4292
pima	0.7935	0.5876	0.5870
pirvision	0.9682	0.9519	0.9538
placement	0.7778	0.5706	0.5711
plrx	0.3791	-0.1886	0.0000
polya	0.7721	0.5429	0.5418
popularity	0.4616	0.2919	0.3024
post-operative	0.3993	0.0000	0.0000
pred-tox_mutagen_ref-desc	0.7525	0.4982	0.4985
prestige	0.8179	0.6759	0.7105
primary-tumor	0.4580	0.3972	0.4026
profb	0.6227	0.2426	0.2458
promoters	0.9097	0.7977	0.8158
pulsar	0.9308	0.8694	0.8721
raisin	0.9199	0.8438	0.8473
rejafada	0.8811	0.7257	0.7531
relathe	0.9920	0.9798	0.9823
rice	0.9807	0.9629	0.9702
rocket	0.7224	0.4447	0.4444
satimage	0.8880	0.8753	0.8836
scadi	0.6598	0.6338	0.6698
schiller	0.8381	0.6110	0.6606
sclerosis	1.0000	0.9949	0.9910
secom	0.4848	0.0000	0.0000
seeds	0.9550	0.9338	0.9262
segment	0.9729	0.9595	0.9608
segmentation	0.8381	0.6649	0.6704

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Dataset	F1-macro	Kappa	MCC
segmentO	0.9635	0.9458	0.9497
seismic	0.6556	0.3088	0.3108
sens-2-gram	0.6617	0.2888	0.3144
sens-3-gram	0.6742	0.2455	0.3138
sens-4-gram	0.6290	0.2206	0.2451
sensorless	0.9974	1.0000	0.9904
shoppers	0.7994	0.5999	0.5968
sick	0.9117	0.8094	0.8179
sirtuin6	1.0000	0.9999	0.9968
smarket	0.9848	0.9896	0.9900
smk.can_187	0.6274	0.2652	0.2665
smoking	0.7647	0.5201	0.5171
soil_pollution	0.2077	0.0116	0.0116
solar-flare	0.6683	0.6628	0.6760
sonar	0.6524	0.2986	0.2999
soybean	0.9738	0.9661	0.9687
spam-detection	0.8767	0.7495	0.7648
spambase	0.9307	0.8705	0.8718
spect	0.5220	0.0385	0.0418
spectf	0.8219	0.6373	0.6413
spectrometer	0.6499	0.6771	0.6716
squash-unstored	1.0000	0.9942	1.0000
startup	0.9825	0.9704	0.9753
steel_industry	0.8974	0.8655	0.8656
stellar	0.9581	0.9756	0.9710
stock	0.8623	0.7249	0.7279
stockb	1.0000	0.9907	0.9906
streaming	0.9931	0.9846	0.9906
stress	0.9984	1.0000	0.9969
student-depression	0.8321	0.6613	0.6589
student-habits	0.2500	0.0636	0.0643
student-lifestyle	0.3792	0.3591	0.3610
student-weekend	0.2472	0.0628	0.0645
student-workday	0.1955	0.1545	0.1617
studentap	0.4615	0.1875	0.1914
tae	0.4769	0.1982	0.2025
telco-churn	0.8725	0.7425	0.7508
texture	0.9790	0.9765	0.9740
theorem	0.9837	0.9677	0.9694
thoracic	0.4416	-0.0977	0.0000
Thyroid_Diff	0.9369	0.8713	0.8650
tis	0.8741	0.7608	0.7641
titanic	0.6882	0.3913	0.3936
tourist	0.2874	0.4111	0.4702
trains	0.3329	0.0000	0.0000
transfusion	0.5600	0.1113	0.1149
tuandromd	0.9510	0.9056	0.9070
turkish	0.7435	0.6665	0.6695
ur3_cobotops_grip	0.7019	0.4012	0.4014
ur3_cobotops_stop	0.8044	0.6105	0.6133
urban	0.8746	0.8212	0.8248
ustilago10%	0.4959	-0.0004	0.0000
vehicle	0.7209	0.6934	0.6936
vote	0.9304	0.8537	0.8612
vowel	0.5472	0.4878	0.5025
wap-wc	0.7498	0.8162	0.8128
warpar10p	0.7065	0.7418	0.7523
warppie10p	1.0000	1.0000	1.0000
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Dataset	F1-macro	Kappa	MCC
waveform	0.8599	0.7819	0.7933
weather-related	0.9806	0.9632	0.9675
white-clover	0.3742	-0.2002	0.0000
wifi-loc	0.9854	0.9931	0.9997
wilt	0.8930	0.7651	0.7682
wine	0.9933	0.9991	0.9973
winequality-red	0.3084	0.3888	0.3856
winequality-white	0.4364	0.4422	0.4452
winnipeg10%	0.9939	0.9908	0.9896
wisc.bc	0.9337	0.8516	0.8647
yale	0.7262	0.7362	0.7430
yeast	0.4681	0.4487	0.4586
yeastCYT-POX	0.8414	0.6457	0.6915
yeastEXC	0.6665	0.3068	0.3282
yeastME1	0.8818	0.7166	0.7503
yeastME2	0.6353	0.2768	0.2769
zip	0.9412	0.9441	0.9426

Table 69: Detailed results for BalancedRF 10

Dataset	F1-macro	Kappa	MCC
abalone	0.1290	0.0664	0.0685
abalone19	0.4329	-0.0141	0.0000
accelerometer	0.6511	0.1355	0.2297
ads	0.8692	0.7276	0.7431
adult	0.7738	0.5288	0.5434
advanced-iot	0.9928	1.0000	0.9977
AID_1431	0.5602	0.0983	0.1131
AID_1431_KlekotaRothFingerprinter	0.4418	-0.0843	0.0000
AID_1431_MACCSFingerprinter	0.4872	-0.0167	0.0000
AID_1878	0.4845	-0.0298	0.0000
AID_602330	0.4957	-0.0052	0.0000
AID_652128	0.4255	0.0833	0.1004
AID1284red	0.5552	0.1003	0.1093
AID1608Morered	0.5655	0.0993	0.1245
AID1608red	0.4270	-0.0971	0.0000
AID362red	0.5648	0.0307	0.0740
AID456red	0.4640	-0.0059	0.0000
AID604AID644_AllRed	0.5090	0.0004	0.0027
AID687AID721red	0.4548	-0.0012	0.0000
AID687red	0.5095	0.0013	0.0052
AID688red	0.4956	-0.0012	0.0000
AID721morered	0.1822	-0.4665	0.0000
AID721red	0.1818	-0.4687	0.0000
aids	0.8426	0.6849	0.6878
air_pollution	0.1630	0.0257	0.0258
alcohol	0.6272	0.6160	0.6288
all-aml	0.9900	1.0000	0.9979
anneal	0.7854	0.6945	0.7227
antivirus	0.9634	0.9147	0.9258
anuran-f-b	0.6766	0.1098	0.2401
anxiety	0.1146	0.0052	0.0052
apple-quality	0.8700	0.7389	0.7425
arabidopsis1%	0.5014	0.0010	0.0013
arcene	0.7645	0.5097	0.5368
arrhythmia	0.6673	0.5112	0.5356
auction	0.8754	0.7413	0.7599
audiology	0.5303	0.5304	0.5545
audit-risk	0.9942	1.0000	0.9887
autism-adolescent	0.9985	0.9998	1.0000
autism-adult	0.9965	0.9997	0.9906
autism-child	0.9692	0.9363	0.9316
autos	0.9021	0.8637	0.8803
avila	0.8130	0.8072	0.8155
balance	0.6831	0.6179	0.6390
bank	0.7728	0.4919	0.5388
bankruptcy	0.9628	0.9163	0.9187
biodeg	0.8622	0.7167	0.7236
biomed	1.0000	0.9999	1.0000
body-perf	0.7360	0.6465	0.6551
brain-tumor	0.4693	-0.0592	0.0000
breast-cancer	0.6027	0.1880	0.2035
breast-cancer-ma	0.6302	0.2410	0.2621
breast-tissue	0.7146	0.6742	0.6840
bridges	0.7319	0.7274	0.7511
cad	0.9943	0.9977	0.9964
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Dataset	F1-macro	Kappa	MCC
cancer	0.9699	0.9335	0.9378
cancer-uae	0.3108	-0.0469	0.0000
car-insurance	0.7998	0.5884	0.5869
cardiotocography-nsp	0.7844	0.6791	0.7000
cardiovascular	0.7368	0.4651	0.4717
cargo2k	1.0000	1.0000	0.9948
cars	0.6932	0.5803	0.5903
cervical-B	0.6895	0.3343	0.3726
cervical-H	0.7178	0.2636	0.3900
cervical-S	0.6749	0.3110	0.3438
children-anemia	0.8631	0.8865	0.8934
chrom211%	0.4955	-0.0015	0.0000
churn	0.7467	0.4886	0.4938
cjs	0.9828	0.9729	0.9764
ckd	0.9981	1.0000	1.0000
clave	0.6542	0.6288	0.6331
cll_sub_111	0.4336	0.2004	0.2154
cmc	0.5083	0.2538	0.2558
cnae-9	0.9246	0.9013	0.8999
codon_usage	0.7714	0.8617	0.8589
coil20	1.0000	0.9956	1.0000
college	0.8750	0.7290	0.7498
collins	0.8238	0.7794	0.7849
colon-tumor	0.8530	0.6676	0.7070
colposcopies-1	0.6648	0.3279	0.3274
colposcopies-2	0.6569	0.3022	0.3107
colposcopies-4	0.5394	0.0858	0.0865
colposcopies-5	0.5817	0.1647	0.1697
colposcopies-c	0.7954	0.5833	0.5967
column-2c	0.8603	0.7178	0.7301
column-3c	0.7904	0.7411	0.7420
coupon	0.7318	0.4672	0.4678
covtypeCD	0.9089	0.8116	0.8185
covtypeT	0.8157	0.5767	0.6235
crabs	0.9187	0.8665	0.8788
crowdsourced	0.7682	0.7947	0.7928
cryotherapy	0.6593	0.3088	0.3159
cultivars	0.4345	0.4533	0.4564
cybersecurity	0.1758	0.0112	0.0113
cyclopentane	0.7772	0.5433	0.5495
cylinder-bands	0.7909	0.5857	0.5933
datatrieve	0.3822	-0.1401	0.0000
dbworld	0.9890	0.9921	1.0000
default	0.7061	0.4097	0.4082
dementia	0.9949	0.9979	1.0000
deposit	0.7641	0.4914	0.5316
depressed	0.5421	0.0808	0.0817
dermatology	0.9431	0.9271	0.9350
desharnais	0.4409	0.1289	0.1623
df_final	0.8711	0.8096	0.8102
DIA	0.7737	0.5420	0.5468
diagnosis	0.9101	0.8239	0.8436
diamonds	1.0000	1.0000	0.9974
diamonds_all	0.7078	0.6242	0.6329
dishonest	1.0000	0.9974	0.9921
dlbcl-nih	0.5373	0.0708	0.0708
dlbcl-stanford	0.6977	0.2878	0.4098
drebin	0.9517	0.9019	0.9164
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Dataset	F1-macro	Kappa	MCC
dropout	0.7028	0.5937	0.5951
ecoli	0.7433	0.7929	0.7976
ecoliCP-IM	0.9975	0.9986	0.9928
ecoliM	0.8240	0.6311	0.6473
ecoliMU	0.5982	0.1192	0.1763
ecoliOM	0.6315	0.2182	0.2465
ecommerce	0.2689	0.0259	0.0258
euthyroid	0.8351	0.6452	0.6759
fakenews	0.5261	0.0437	0.0437
fbis-wc	0.8058	0.8295	0.8308
finance	0.6103	0.2204	0.2217
financial-risk	0.6235	0.7077	0.7072
flags	0.4134	0.4589	0.4805
forest	0.9024	0.8891	0.8974
gas	0.9865	0.9916	0.9918
gastrointestinal	0.7713	0.5234	0.6038
gender	0.4553	0.1742	0.1731
german	0.6608	0.3209	0.3239
gestures	0.9243	0.9057	0.9061
gina	0.9614	0.9203	0.9184
gisette	0.9692	0.9421	0.9431
glass	0.8080	0.6944	0.6990
glass-g2	0.9419	0.8705	0.8796
glassBWFP	0.9456	0.8996	0.9045
glassBWNFP	0.7227	0.4468	0.4474
glassContainers	0.8395	0.6200	0.6717
glassNW	0.9944	1.0000	1.0000
glassTableware	0.8441	0.6413	0.6920
GlaucomaM	0.7884	0.5772	0.5778
gli.85	0.8710	0.7142	0.7473
glioma	0.8380	0.7049	0.7492
glioma-grade	0.7706	0.5418	0.5447
green	0.3900	-0.1992	0.0000
gsalc	0.8021	0.8571	0.8692
haberman	0.7176	0.4267	0.4253
hapt	0.8654	0.9359	0.9329
har	0.9943	0.9908	0.9933
health-activity	0.2760	0.0511	0.0591
heart	0.8085	0.6076	0.6136
heart-c	0.7985	0.5934	0.6013
heart-failure	0.9772	0.9700	0.9705
heart-quantum	0.9030	0.7972	0.8094
hepatitis	0.8071	0.5419	0.6169
higher	0.1760	0.0231	0.0240
hinselmann	0.3321	-0.3126	0.0000
hitters	0.8748	0.7447	0.7524
hiv1-proteasa	0.8230	0.6334	0.6460
hiva	0.5729	0.0941	0.1272
horse	0.6597	0.3916	0.3979
hotel-reservartions	0.8788	0.7481	0.7590
hr	0.5349	0.0734	0.0741
htru2	0.8696	0.7275	0.7369
hypothyroid	0.5739	0.3873	0.4960
immuno-therapy	0.8793	0.7289	0.7579
ionosphere	0.9024	0.8045	0.8057
iris	0.9980	0.9965	0.9957
irish	0.9958	1.0000	0.9943
isolet	0.9119	0.9028	0.9035
Continued on next page			

Dataset	F1-macro	Kappa	MCC
jm1	0.6529	0.2847	0.2983
jvowels	0.9727	0.9682	0.9717
kc1-class-level-numericdefect	0.2618	0.1612	0.1987
kc1-class-level-top5percentDF	0.4420	-0.0982	0.0000
kc2	0.6731	0.3258	0.3403
kdc-4007	0.7893	0.7477	0.7569
kddcup991%	0.4974	0.8319	0.8323
kidney	0.2061	0.0077	0.0087
kidney-disease	0.9717	0.9458	0.9452
la2s-wc	0.8860	0.8563	0.8660
labor	0.7546	0.4013	0.5007
leaf	0.8017	0.8127	0.8204
led24	0.7771	0.7138	0.7104
lenses	0.5722	0.4986	0.6102
letter	0.9465	0.9479	0.9338
linkage1%	0.9520	0.8823	0.8821
loan	0.9830	0.9742	0.9686
lrs	0.6095	0.6741	0.6704
lung_discrete	0.9971	0.9945	0.9950
lymphography	0.6981	0.4574	0.5165
lymphoma2	0.7916	0.8488	0.8624
machine-failure	0.9006	0.8089	0.8040
magic04	0.8583	0.7122	0.7148
malware	0.9927	0.9922	1.0000
mammography	0.7369	0.4797	0.4761
marketing	0.7137	0.4160	0.4277
mba	0.4756	0.2890	0.3509
mental-disorders	0.9215	0.8876	0.9011
messidor	0.6395	0.2747	0.2747
meter-A	0.7960	0.5273	0.5987
meter-B	0.9115	0.8243	0.8467
meter-C	0.9977	0.9989	1.0000
meter-D	0.8281	0.8459	0.8465
mfeat-fac	0.9716	0.9654	0.9694
mfeat-fou	0.8056	0.7843	0.7769
mfeat-kar	0.9563	0.9617	0.9573
mfeat-mor	0.6786	0.6499	0.6520
mfeat-pix	0.9813	0.9785	0.9803
mfeat-zer	0.7625	0.7415	0.7415
mice-prot	1.0000	0.9978	1.0000
milk	1.0000	0.9986	0.9916
mines	0.5255	0.4129	0.4115
mobile	0.9393	0.9374	0.9312
monks-1	0.9124	0.8207	0.8265
monks-3	0.9725	0.9330	0.9263
mushroom	0.9993	0.9956	0.9966
music	0.5373	0.3862	0.3872
MUT_ci300400a_cdk_ECFP2	0.7941	0.5839	0.5860
MUT_ci300400a_cdk_ECFP4	0.8079	0.6172	0.6141
MUT_ci300400a_cdk_ECFP6	0.8084	0.6094	0.6138
MUT_ci300400a_cdk_ESTATE	0.7448	0.5072	0.5045
MUT_ci300400a_cdk_EXTENDED	0.8070	0.6156	0.6233
MUT_ci300400a_cdk_FCFP2	0.7920	0.5720	0.5810
MUT_ci300400a_cdk_FCFP4	0.7806	0.5537	0.5549
MUT_ci300400a_cdk_FCFP6	0.7843	0.5707	0.5686
MUT_ci300400a_cdk_MACCS	0.8067	0.6171	0.6218
MUT_ci300400a_cdk_PUBCHEM	0.8304	0.6609	0.6593
MUT_ci300400a_cdk_STANDARD	0.8159	0.6353	0.6364

Continued on next page

Dataset	F1-macro	Kappa	MCC
MUT_ci300400a_rdkit_descriptors	0.7885	0.5877	0.5867
myocardial	0.3509	0.2033	0.2656
naticusdroid	0.9711	0.9308	0.9321
nci9	0.7888	0.8000	0.8289
neo	0.6788	0.1857	0.2898
new-thyroid	0.9370	0.8971	0.9096
new-thyroidT	0.9963	1.0000	1.0000
newspop	0.6531	0.3011	0.3027
NHANES_age_prediction	0.9583	0.9263	0.9243
nursery	0.8947	0.9211	0.9249
obesity	0.9333	0.9082	0.9054
obs	0.9375	0.9242	0.9206
oh0-wc	0.9460	0.9388	0.9485
oh10-wc	0.7724	0.7512	0.7527
oh15-wc	0.8955	0.8790	0.8738
oh5-wc	0.8790	0.8447	0.8474
olive	0.9279	0.9157	0.9162
optdigits	0.9602	0.9500	0.9494
orlraws10P	0.9946	0.9930	1.0000
ozone1hr	0.6464	0.1922	0.2641
p53-mutants10%	0.4544	-0.0063	0.0000
parkinson	0.9868	0.9771	0.9796
pc1	0.6752	0.2496	0.3187
pcmac	0.4857	-0.0308	0.0000
pediatric-leukemia	0.8214	0.7539	0.7563
pendigits	0.9962	0.9855	0.9847
period-10f	0.3396	-0.2856	0.0000
persistency	0.8141	0.6433	0.6411
pet-adoption	0.8930	0.7798	0.7871
phishing	0.8865	0.7848	0.7871
PhiUSIL10%	0.9856	0.9838	0.9796
phy	0.7085	0.4008	0.4058
pima	0.7839	0.5615	0.5633
pirvision	0.8392	0.7447	0.7639
placement	0.7706	0.5422	0.5415
plrx	0.3553	-0.2622	0.0000
polya	0.7573	0.5169	0.5199
popularity	0.4968	0.2846	0.2894
post-operative	0.5008	0.0000	0.0000
pred-tox_mutagen_ref-desc	0.7642	0.5252	0.5319
prestige	0.8188	0.6740	0.7175
primary-tumor	0.4015	0.3610	0.3664
profb	0.5581	0.1144	0.1161
promoters	0.8946	0.7837	0.7977
pulsar	0.8818	0.7519	0.7575
raisin	0.8985	0.7926	0.7999
rejafada	0.7766	0.4201	0.5174
relathe	0.9891	0.9703	0.9733
rice	0.9782	0.9614	0.9712
rocket	0.7005	0.3974	0.4020
satimage	0.9026	0.8936	0.8924
scadi	0.5164	0.4468	0.4585
schiller	0.5304	0.0524	0.0597
sclerosis	0.9971	1.0000	0.9969
secom	0.5740	0.1450	0.1447
seeds	0.9549	0.9230	0.9249
segment	0.9574	0.9519	0.9513
segmentation	0.8397	0.6804	0.6772
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Dataset	F1-macro	Kappa	MCC
segmentO	0.9372	0.8606	0.8724
seismic	0.6308	0.1789	0.2399
sens-2-gram	0.6533	0.3004	0.2991
sens-3-gram	0.6444	0.2841	0.2846
sens-4-gram	0.5982	0.1909	0.1965
sensorless	0.9913	1.0000	0.9988
shoppers	0.7861	0.5666	0.5770
sick	0.8227	0.6024	0.6431
sirtuin6	0.9992	1.0000	0.9997
smarket	0.9901	0.9900	0.9823
smk.can_187	0.6340	0.2551	0.2577
smoking	0.7652	0.5146	0.5213
soil_pollution	0.2005	0.0038	0.0038
solar-flare	0.6383	0.6541	0.6571
sonar	0.6025	0.2006	0.2048
soybean	0.9664	0.9440	0.9518
spam-detection	0.7619	0.4444	0.5094
spambase	0.9339	0.8493	0.8555
spect	0.4524	-0.0871	0.0000
spectf	0.8055	0.6013	0.6062
spectrometer	0.3766	0.3387	0.3388
squash-unstored	0.9963	0.9992	0.9910
startup	0.9800	0.9495	0.9535
steel_industry	0.8836	0.8541	0.8540
stellar	0.9828	0.9520	0.9412
stock	0.7979	0.5861	0.6051
stockb	0.9831	0.9863	0.9906
streaming	0.9884	0.9787	0.9824
stress	0.9673	0.9585	0.9682
student-depression	0.8315	0.6491	0.6476
student-habits	0.2694	0.0902	0.0919
student-lifestyle	0.3729	0.2563	0.2697
student-weekend	0.2098	0.0306	0.0314
student-workday	0.1757	0.0288	0.0322
studentap	0.4599	0.1720	0.1743
tae	0.4686	0.2000	0.2019
telco-churn	0.8673	0.7418	0.7360
texture	0.9892	0.9776	0.9767
theorem	0.9459	0.8986	0.9085
thoracic	0.5659	0.1287	0.1288
Thyroid_Diff	0.9445	0.8829	0.8800
tis	0.8577	0.6934	0.7016
titanic	0.6969	0.3855	0.3877
tourist	0.5250	0.6363	0.6884
trains	1.0000	1.0000	0.9927
transfusion	0.5662	0.1176	0.1311
tuandromd	0.9684	0.9322	0.9424
turkish	0.7354	0.6671	0.6662
ur3_cobotops_grip	0.6422	0.1803	0.2511
ur3_cobotops_stop	0.7158	0.3097	0.4003
urban	0.8565	0.8082	0.8106
ustilago10%	0.5072	0.0137	0.0166
vehicle	0.7000	0.6583	0.6611
vote	0.9329	0.8569	0.8623
vowel	0.6266	0.5920	0.5968
wap-wc	0.6546	0.7422	0.7417
warpar10p	0.8284	0.8329	0.8341
warppie10p	0.9687	0.9456	0.9482
Continued on next page			

Dataset	F1-macro	Kappa	MCC
waveform	0.8461	0.7552	0.7553
weather-related	0.9701	0.9552	0.9567
white-clover	0.6609	0.1820	0.3171
wifi-loc	1.0000	0.9845	0.9862
wilt	0.7543	0.4120	0.4953
wine	0.9232	0.8922	0.8953
winequality-red	0.2436	0.1691	0.1780
winequality-white	0.3483	0.2669	0.2787
winnipeg10%	0.9360	0.9756	0.9801
wisc.bc	0.9459	0.8832	0.8966
yale	0.7670	0.8018	0.8033
yeast	0.4637	0.4632	0.4620
yeastCYT-POX	0.7247	0.2832	0.4086
yeastEXC	0.7057	0.2141	0.3456
yeastME1	0.7146	0.2393	0.3696
yeastME2	0.6220	0.1643	0.2167
zip	0.9448	0.9458	0.9462

Table 70: Detailed results for Crazy 10

Dataset	F1-macro	Kappa	MCC
abalone	0.1369	0.0710	0.0725
abalone19	0.4982	0.0000	0.0000
accelerometer	0.7222	0.3097	0.4000
ads	0.9076	0.7972	0.8141
adult	0.7863	0.5415	0.5713
advanced-iot	1.0000	1.0000	1.0000
AID_1431	0.4772	0.0000	0.0000
AID_1431_KlekotaRothFingerprinter	0.4772	0.0000	0.0000
AID_1431_MACCSFingerprinter	0.4728	-0.0276	0.0000
AID_1878	0.5220	0.0256	0.0357
AID_602330	0.4866	-0.0169	0.0000
AID_652128	0.3118	0.0000	0.0000
AID1284red	0.4545	-0.0485	0.0000
AID1608Moredred	0.6340	0.1980	0.2416
AID1608red	0.4824	-0.0169	0.0000
AID362red	0.4917	-0.0163	0.0000
AID373AID439red	0.4997	-0.0003	0.0000
AID373red	0.4995	-0.0010	0.0000
AID456red	0.4990	-0.0015	0.0000
AID604	0.5527	0.0574	0.0801
AID604AID644_AllRed	0.4996	-0.0007	0.0000
AID687AID721red	0.4990	-0.0010	0.0000
AID687red	0.4986	-0.0027	0.0000
AID688red	0.4977	0.0000	0.0000
AID721moredred	0.4375	0.0000	0.0000
AID721red	0.4000	-0.1739	0.0000
AID746AID1284red	0.4992	-0.0014	0.0000
AID746red	0.5178	0.0323	0.0340
aids	0.8176	0.6343	0.6352
air_pollution	0.0826	0.0000	0.0000
alcohol	0.6783	0.6711	0.7041
all-aml	1.0000	1.0000	1.0000
anneal	0.9872	0.9766	0.9769
antivirus	1.0000	1.0000	1.0000
anuran-f-b	1.0000	1.0000	1.0000
anxiety	0.0695	-0.0302	0.0000
apple-quality	0.7999	0.5950	0.5997
aps-failure	0.8101	0.5608	0.6085
arabidopsis1%	0.4980	0.0000	0.0000
arcene	0.7292	0.4231	0.4583
arrhythmia	0.1758	0.0747	0.2011
auction	0.9777	0.9544	0.9554
audiology	0.5530	0.7257	0.7376
audit-risk	0.9869	0.9734	0.9737
autism-adolescent	1.0000	1.0000	1.0000
autism-adult	1.0000	1.0000	1.0000
autism-child	1.0000	1.0000	1.0000
autos	0.8576	0.8020	0.8102
avila	0.9977	0.9994	0.9994
balance	0.6396	0.5183	0.5212
bank	0.7460	0.4889	0.4915
bankruptcy	1.0000	1.0000	1.0000
bio	0.8509	0.6544	0.6946
biodeg	0.8467	0.6897	0.6934
biomed	1.0000	1.0000	1.0000
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Dataset	F1-macro	Kappa	MCC
bitcoin10%	0.3040	0.4380	0.4651
body-perf	0.7240	0.6259	0.6319
brain-tumor	0.5108	0.0214	0.0216
breast-cancer	0.6242	0.2432	0.2477
breast-cancer-ma	0.3529	0.0000	0.0000
breast-tissue	0.7179	0.6733	0.6869
bridges	0.8192	0.8485	0.8641
bub12at310k-hg16-17	0.7003	0.3843	0.3967
cad	0.9629	0.9231	0.9258
cancer	1.0000	1.0000	1.0000
cancer-uae	0.3211	0.0135	0.0141
car-insurance	0.8140	0.6264	0.6280
cardiotocography-nsp	0.8338	0.7432	0.7462
cardiovascular	0.7306	0.4574	0.4612
cargo2k	1.0000	1.0000	1.0000
cars	0.6852	0.6000	0.6084
ccds10%	0.5727	0.0469	0.0882
cdc_diabetes	0.4452	0.3165	0.3285
census	0.7410	0.4914	0.4949
cervical-B	0.7273	0.4173	0.4455
cervical-H	0.7378	0.4756	0.4756
cervical-S	0.8046	0.5212	0.5936
children-anemia	0.8269	0.8903	0.8921
chrom19	0.9214	0.8350	0.8421
chrom211%	0.4998	0.0000	0.0000
churn	0.7363	0.4725	0.4725
cjs	1.0000	1.0000	1.0000
ckd	1.0000	1.0000	1.0000
clave	0.6600	0.6388	0.6425
cll_sub_111	0.7500	0.4783	0.5000
cmc	0.5488	0.3157	0.3174
cnae-9	0.9465	0.9375	0.9380
codon_usage	0.6531	0.7846	0.7909
coil20	1.0000	1.0000	1.0000
college	0.9172	0.8338	0.8343
collins	0.9097	0.9559	0.9568
colon-tumor	1.0000	1.0000	1.0000
colposcopies-1	0.6245	0.2209	0.2450
colposcopies-2	0.6556	0.1104	0.2417
colposcopies-4	0.6667	0.3165	0.3310
colposcopies-5	0.4528	0.0000	0.0000
colposcopies-c	0.7526	0.3777	0.4825
column-2c	0.9342	0.8597	0.8683
column-3c	0.7543	0.6895	0.6930
connect-4	0.6752	0.5500	0.5627
coupon	0.7191	0.4381	0.4381
covtype	0.9119	0.9155	0.9155
covtypeCD	0.9735	0.9469	0.9470
covtypeT	0.9022	0.7937	0.8036
crabs	0.9141	0.8667	0.8785
creditcard_trans	0.7824	0.5611	0.5640
crowdsourced	0.7172	0.8299	0.8346
cryotherapy	0.5500	0.1000	0.1000
cultivars	0.4830	0.5161	0.5219
cybersecurity	0.1769	0.0084	0.0085
cyclopentane	0.7072	0.4098	0.4144
cylinder-bands	0.7952	0.5128	0.5872
datatrieve	0.4800	0.0000	0.0000
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Dataset	F1-macro	Kappa	MCC
dating	0.1021	0.0054	0.0057
dbworld	1.0000	1.0000	1.0000
default	0.7133	0.4230	0.4262
dementia	1.0000	1.0000	1.0000
deposit	0.7303	0.4478	0.4581
depressed	0.6278	0.1151	0.1954
dermatology	0.9429	0.9325	0.9325
desharnais	0.5455	0.5556	0.6063
df_final	0.7551	0.6049	0.6345
DIA	0.8179	0.5676	0.6295
diabetes-100k	0.8023	0.5136	0.5878
diagnosis	1.0000	1.0000	1.0000
diamonds	1.0000	1.0000	1.0000
diamonds_all	0.7019	0.5961	0.6066
dishonest	1.0000	1.0000	1.0000
dlbcl-nih	0.5391	0.0625	0.0756
dlbcl-stanford	0.8333	0.6154	0.6667
dna0.1%	0.4992	-0.0004	0.0000
dota2	0.5697	0.1306	0.1391
drebin	0.9658	0.9314	0.9316
dropout	0.6716	0.5896	0.5988
ecoli	0.7465	0.8359	0.8380
ecoliCP-IM	1.0000	1.0000	1.0000
ecoliM	0.9175	0.8350	0.8350
ecoliMU	0.6474	0.2281	0.2797
ecoliOM	0.7339	0.4677	0.4677
ecommerce	0.2637	0.0250	0.0251
euthyroid	0.8960	0.7914	0.7919
fakenews	0.5213	0.0418	0.0427
fbis-wc	0.4017	0.5039	0.5286
finance	0.7621	0.5173	0.5242
financial-risk	0.4731	0.5713	0.6060
flags	0.4640	0.6764	0.6933
forest	0.8552	0.8408	0.8426
gas	0.9944	0.9939	0.9939
gastrointestinal	0.7526	0.5844	0.6009
gender	0.4763	0.1250	0.1362
german	0.6856	0.3510	0.3695
gestures	0.8642	0.8106	0.8169
gina	0.8919	0.7812	0.7838
gisette	0.9249	0.8486	0.8498
glass	0.7176	0.6656	0.6722
glass-g2	1.0000	1.0000	1.0000
glassBWFP	0.9032	0.7879	0.8062
glassBWNFP	0.9472	0.8889	0.8944
glassContainers	1.0000	1.0000	1.0000
glassNW	0.9340	0.8591	0.8677
glassTableware	1.0000	1.0000	1.0000
GlaucomaM	0.7978	0.5824	0.5955
gli_85	0.8730	0.7143	0.7454
glioma	0.8333	0.7059	0.7500
glioma-grade	0.8845	0.7610	0.7689
green	0.6098	0.2105	0.2182
gsalc	1.0000	1.0000	1.0000
haberman	0.4431	-0.1111	0.0000
hapt	0.8081	0.9111	0.9116
har	0.9925	0.9910	0.9910
harth10%	0.5452	0.8013	0.8035
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Dataset	F1-macro	Kappa	MCC
health-activity	0.2175	0.0000	0.0000
heart	0.7666	0.5263	0.5330
heart-c	0.9009	0.8000	0.8018
heart-failure	0.9838	0.9671	0.9676
heart-quantum	0.9423	0.8780	0.8847
hepatitis	0.7266	0.4444	0.4523
higher	0.2447	0.1304	0.1419
hinselmann	0.4444	0.0000	0.0000
hitters	0.9373	0.8745	0.8745
hiv1-proteasa	0.7474	0.4036	0.4766
hiva	0.5545	0.0838	0.0973
horse	0.3570	0.1053	0.1171
hotel-reservartions	0.8854	0.7691	0.7707
hr	0.4633	0.0000	0.0000
ht-sensor	0.9978	0.9966	0.9966
htru2	0.9314	0.8578	0.8626
hypothyroid	0.6957	0.8796	0.8845
immuno-therapy	0.6786	0.3571	0.3571
ionosphere	0.9337	0.8674	0.8674
iris	0.9333	0.8993	0.9054
irish	1.0000	1.0000	1.0000
isolet	0.8621	0.8531	0.8536
jm1	0.6617	0.3204	0.3228
jvowels	0.9496	0.9477	0.9478
kc1-class-level-numericdefect	0.1636	0.0000	0.0000
kc1-class-level-top5percentDF	0.4828	0.0000	0.0000
kc2	0.7118	0.4235	0.4235
kdc-4007	0.1995	0.0059	0.0543
kddcup991%	0.7561	0.9976	0.9976
kidney	0.1778	0.0000	0.0000
kidney-disease	1.0000	1.0000	1.0000
la2s-wc	0.3100	0.2021	0.3209
labor	1.0000	1.0000	1.0000
leaf	0.6205	0.6594	0.6648
led24	0.7403	0.6601	0.6676
lenses	0.3333	0.0000	0.0000
letter	0.9544	0.9527	0.9527
linkage1%	0.9634	0.9266	0.9268
loan	0.9661	0.9311	0.9322
lrs	0.6268	0.7903	0.7984
lung_discrete	0.7652	0.8367	0.8549
lymphography	0.4934	0.4510	0.4560
lymphoma2	0.4194	0.5000	0.5511
machine-failure	0.9251	0.8483	0.8501
magic04	0.8450	0.6809	0.6897
malware	1.0000	1.0000	1.0000
mammography	0.8745	0.7490	0.7490
marketing	0.7427	0.4529	0.4795
mba	0.4447	0.3174	0.3268
mental-disorders	0.9270	0.8889	0.8972
messidor	0.6666	0.3271	0.3331
meter-A	0.8000	0.5294	0.6000
meter-B	1.0000	1.0000	1.0000
meter-C	1.0000	1.0000	1.0000
meter-D	1.0000	1.0000	1.0000
mfeat-fac	0.9608	0.9556	0.9558
mfeat-fou	0.7776	0.7556	0.7565
mfeat-kar	0.9668	0.9611	0.9615
Continued on next page			

Dataset	F1-macro	Kappa	MCC
mfeat-mor	0.6812	0.6500	0.6507
mfeat-pix	0.9856	0.9833	0.9834
mfeat-zer	0.7877	0.7667	0.7670
mice-prot	1.0000	1.0000	1.0000
milk	1.0000	1.0000	1.0000
mines	0.4757	0.3384	0.3444
mobile	0.9605	0.9573	0.9575
monks-1	1.0000	1.0000	1.0000
monks-3	0.9824	0.9642	0.9648
mushroom	1.0000	1.0000	1.0000
music	0.5320	0.3835	0.3892
MUT_ci300400a_cdk_ECFP2	0.7350	0.4311	0.4701
MUT_ci300400a_cdk_ECFP4	0.7183	0.3910	0.4365
MUT_ci300400a_cdk_ECFP6	0.7092	0.3777	0.4184
MUT_ci300400a_cdk_ESTATE	0.7540	0.5034	0.5081
MUT_ci300400a_cdk_EXTENDED	0.8090	0.6134	0.6179
MUT_ci300400a_cdk_FCFP2	0.7546	0.4981	0.5091
MUT_ci300400a_cdk_FCFP4	0.6940	0.3554	0.3879
MUT_ci300400a_cdk_FCFP6	0.7125	0.3996	0.4249
MUT_ci300400a_cdk_MACCS	0.8088	0.6172	0.6175
MUT_ci300400a_cdk_PUBCHEM	0.8343	0.6655	0.6687
MUT_ci300400a_cdk_STANDARD	0.7932	0.5822	0.5863
MUT_ci300400a_rdkit_descriptors	0.8063	0.6077	0.6126
myocardial	0.2414	0.2917	0.4167
naticusdroid	0.9623	0.9244	0.9246
nci9	0.5714	0.6000	0.6445
ncRNA10%	0.6868	0.8198	0.8258
neo	0.7503	0.4101	0.4874
new-thyroid	1.0000	1.0000	1.0000
new-thyroidT	1.0000	1.0000	1.0000
newspop	0.6643	0.3168	0.3285
NHANES_age_prediction	1.0000	1.0000	1.0000
nomao	0.9449	0.8897	0.8898
nursery	0.9187	0.9376	0.9379
obesity	0.9431	0.9336	0.9343
obs	1.0000	1.0000	1.0000
oh0-wc	0.4711	0.4399	0.5127
oh10-wc	0.3690	0.3131	0.4030
oh15-wc	0.2041	0.1985	0.3097
oh5-wc	0.5465	0.5034	0.5394
olive	0.9174	0.9123	0.9157
optdigits	0.9590	0.9525	0.9526
orlraws10P	0.8743	0.8889	0.8989
ozone1hr	0.4909	0.0000	0.0000
p53-mutants10%	0.4992	0.0000	0.0000
parkinson	0.9915	0.9828	0.9830
particle	0.9054	0.8104	0.8108
pc1	0.5693	0.1246	0.1330
pcmac	0.3681	0.0000	0.0000
pediatric-leukemia	0.5439	0.5939	0.6059
pendigits	0.9774	0.9747	0.9747
period-10f	0.5950	0.1818	0.1890
persistence	0.8042	0.6051	0.6083
personalities	0.9759	0.9742	0.9742
pet-adoption	0.8797	0.7501	0.7592
phishing	0.9399	0.8792	0.8797
PhiUSIL10%	0.9987	0.9974	0.9974
phy	0.7043	0.4085	0.4086
Continued on next page			

Dataset	F1-macro	Kappa	MCC
pima	0.7470	0.4802	0.4936
pirvision	0.9657	0.9557	0.9561
placement	0.7834	0.5668	0.5668
plrx	0.4000	-0.1020	0.0000
polya	0.7272	0.4430	0.4539
popularity	0.5416	0.2398	0.2700
post-operative	0.3571	-0.2000	0.0000
postures	0.9867	0.9837	0.9837
pred-tox_mutagen_ref-desc	0.7073	0.4118	0.4146
prestige	0.8889	0.8302	0.8462
primary-tumor	0.3090	0.3252	0.3327
processed	1.0000	1.0000	1.0000
profb	0.6327	0.2637	0.2652
promoters	0.9010	0.7826	0.8018
puc-rio	0.9854	0.9891	0.9892
pufs-1281%	0.5000	-0.0000	0.0000
pufs-6410%	0.4986	-0.0002	0.0000
pulsar	0.9458	0.8877	0.8914
raisin	0.8786	0.7556	0.7572
rejabatada	1.0000	1.0000	1.0000
relathe	0.9929	0.9858	0.9859
rice	0.9862	0.9722	0.9723
rocket	0.7140	0.4162	0.4280
RT_IOT2022	0.9720	0.9910	0.9910
satimage	0.8739	0.8614	0.8623
scadi	0.6600	0.6316	0.6667
schiller	0.8333	0.6087	0.6614
sclerosis	1.0000	1.0000	1.0000
secom	0.4834	0.0000	0.0000
secondary_mushroom	0.9995	0.9990	0.9990
seeds	0.9553	0.9286	0.9317
segment	0.9612	0.9494	0.9495
segmentation	0.8152	0.6255	0.6304
segmentO	0.9916	0.9830	0.9831
seismic	0.5561	0.0719	0.0931
sens-2-gram	0.6772	0.0998	0.2292
sens-3-gram	0.6133	0.2022	0.2190
sens-4-gram	0.5899	0.1739	0.1780
sensorless	0.9985	0.9983	0.9983
shoppers	0.7995	0.5989	0.5990
sick	0.8698	0.7171	0.7371
sirtuin6	1.0000	1.0000	1.0000
smarket	0.9921	0.9840	0.9841
smk_can_187	0.6438	0.2732	0.2875
smoking	0.8021	0.5836	0.6040
soil_pollution	0.2099	0.0188	0.0205
solar-flare	0.7055	0.6953	0.7058
sonar	0.6021	0.2000	0.2041
soybean	0.9776	0.9517	0.9533
spam-detection	0.8671	0.7340	0.7341
spambase	0.9385	0.8767	0.8769
spect	0.4551	-0.0870	0.0000
spectf	0.8552	0.7021	0.7100
spectrometer	0.4654	0.5090	0.5136
squash-unstored	1.0000	1.0000	1.0000
startup	1.0000	1.0000	1.0000
steel_industry	0.8448	0.7980	0.7982
stellar	0.9655	0.9463	0.9465
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Dataset	F1-macro	Kappa	MCC
stock	0.7888	0.5776	0.5776
stockb	1.0000	1.0000	1.0000
streaming	0.9252	0.8504	0.8505
stress	1.0000	1.0000	1.0000
student-depression	0.7832	0.5628	0.5663
student-habits	0.1581	-0.0374	0.0000
student-lifestyle	0.3427	0.3789	0.3813
student-weekend	0.2163	0.1247	0.1374
student-workday	0.1651	0.0000	0.0000
studentap	0.5111	0.2909	0.2909
swarm_aligned	0.9966	0.9932	0.9932
swarm_flocking	0.9979	0.9958	0.9958
swarm_grouped	0.9991	0.9982	0.9982
tae	0.4820	0.2000	0.2056
telco-churn	0.8596	0.7192	0.7192
texture	0.9825	0.9800	0.9800
theorem	0.9410	0.8819	0.8820
thoracic	0.4535	-0.0387	0.0000
Thyroid_Diff	0.9365	0.8648	0.8728
tis	0.8272	0.6427	0.6536
titanic	0.7934	0.5163	0.5813
tourist	0.5250	0.6364	0.6848
trains	1.0000	1.0000	1.0000
transfusion	0.5665	0.1290	0.1325
tuandromd	0.9859	0.9713	0.9717
turkish	0.8093	0.7333	0.7439
tvnews	0.9001	0.7993	0.8002
ur3_cobotops_grip	0.7237	0.3245	0.4087
ur3_cobotops_stop	0.7046	0.3547	0.3929
urban	0.8305	0.7731	0.7769
ustilago10%	0.4973	-0.0004	0.0000
vehicle	0.7248	0.6931	0.6949
vote	0.9307	0.8605	0.8615
vowel	0.7498	0.7111	0.7163
wap-wc	0.1653	0.1067	0.2174
warpar10p	0.7241	0.7383	0.7591
warppie10p	1.0000	1.0000	1.0000
waveform	0.8502	0.7691	0.7752
weather-related	0.9710	0.9630	0.9632
weight-lift	0.9969	0.9961	0.9961
white-clover	0.6604	0.1818	0.3162
wifi-loc	0.9800	0.9733	0.9733
wilt	0.9034	0.8065	0.8067
wine	1.0000	1.0000	1.0000
winequality-red	0.3305	0.4891	0.4960
winequality-white	0.4473	0.5028	0.5116
winnipeg10%	0.9910	0.9856	0.9857
wisc.bc	0.9643	0.9261	0.9286
yale	0.6588	0.6653	0.6796
yeast	0.4712	0.4396	0.4520
yeastCYT-POX	0.9047	0.7897	0.8078
yeastEXC	0.6001	0.1981	0.1995
yeastME1	0.8715	0.7431	0.7431
yeastME2	0.6386	0.2055	0.2496
zip	0.9029	0.8974	0.8978

Table 71: Detailed results for Crazier 10

Dataset	F1-macro	Kappa	MCC
abalone	0.1137	0.0782	0.0796
abalone19	0.4982	0.0000	0.0000
accelerometer	0.7098	0.1877	0.3218
ads	0.9076	0.7972	0.8141
adult	0.7836	0.5359	0.5659
advanced-iot	1.0000	1.0000	1.0000
AID_1431	0.4772	0.0000	0.0000
AID_1431_KlekotaRothFingerprinter	0.4772	0.0000	0.0000
AID_1431_MACCSFingerprinter	0.4728	-0.0276	0.0000
AID_1878	0.4444	-0.0357	0.0000
AID_602330	0.4866	-0.0169	0.0000
AID_652128	0.3118	0.0000	0.0000
AID1284red	0.4545	-0.0485	0.0000
AID1608Morered	0.7193	0.2370	0.3667
AID1608red	0.4824	-0.0169	0.0000
AID362red	0.4929	-0.0142	0.0000
AID373AID439red	0.4997	-0.0003	0.0000
AID373red	0.4996	-0.0007	0.0000
AID456red	0.4990	-0.0015	0.0000
AID604	0.5555	0.0483	0.0763
AID604AID644_AllRed	0.4995	-0.0009	0.0000
AID687AID721red	0.4993	-0.0009	0.0000
AID687red	0.4989	-0.0020	0.0000
AID688red	0.4976	-0.0007	0.0000
AID721morered	0.4375	0.0000	0.0000
AID721red	0.4000	-0.1739	0.0000
AID746AID1284red	0.4995	-0.0011	0.0000
AID746red	0.5274	0.0398	0.0471
aids	0.8176	0.6343	0.6352
air_pollution	0.0826	0.0000	0.0000
alcohol	0.6783	0.6711	0.7041
all-aml	0.8182	0.5714	0.6325
anneal	0.9872	0.9766	0.9769
antivirus	1.0000	1.0000	1.0000
anuran-f-b	1.0000	1.0000	1.0000
anxiety	0.1089	0.0056	0.0057
apple-quality	0.8015	0.6000	0.6030
aps-failure	0.7581	0.5158	0.5161
arabidopsis1%	0.4980	0.0000	0.0000
arcene	0.7292	0.4231	0.4583
arrhythmia	0.1758	0.0747	0.2011
auction	0.9777	0.9544	0.9554
audiology	0.5713	0.7236	0.7379
audit-risk	0.9869	0.9734	0.9737
autism-adolescent	1.0000	1.0000	1.0000
autism-adult	1.0000	1.0000	1.0000
autism-child	1.0000	1.0000	1.0000
autos	0.8576	0.8020	0.8102
avila	0.9977	0.9994	0.9994
balance	0.6444	0.6184	0.6223
bank	0.7512	0.5008	0.5022
bankruptcy	1.0000	1.0000	1.0000
bio	0.8586	0.6748	0.7110
biodeg	0.8675	0.7337	0.7350
biomed	1.0000	1.0000	1.0000
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Dataset	F1-macro	Kappa	MCC
bitcoin10%	0.3145	0.4499	0.4912
body-perf	0.7274	0.6318	0.6367
brain-tumor	0.5036	0.0071	0.0071
breast-cancer	0.5913	0.1818	0.1826
breast-cancer-ma	0.6333	0.2667	0.2667
breast-tissue	0.7179	0.6733	0.6869
bridges	0.8192	0.8485	0.8641
bub12at310k-hg16-17	0.6946	0.3606	0.3818
cad	0.9629	0.9231	0.9258
cancer	1.0000	1.0000	1.0000
cancer-uae	0.3089	-0.0209	0.0000
car-insurance	0.8112	0.6206	0.6224
cardiotocography-nsp	0.8323	0.7506	0.7565
cardiovascular	0.7321	0.4600	0.4642
cargo2k	1.0000	1.0000	1.0000
cars	0.6852	0.6000	0.6084
ccds10%	0.5727	0.0469	0.0882
cdc_diabetes	0.4453	0.3230	0.3292
census	0.7500	0.4888	0.4923
cervical-B	0.7273	0.4173	0.4455
cervical-H	0.7090	0.4142	0.4170
cervical-S	0.8046	0.5212	0.5936
children-anemia	0.8320	0.8880	0.8898
chrom19	0.9256	0.8473	0.8509
chrom211%	0.4998	0.0000	0.0000
churn	0.7606	0.5193	0.5210
cjs	1.0000	1.0000	1.0000
ckd	1.0000	1.0000	1.0000
clave	0.6253	0.6385	0.6476
cll_sub_111	0.6964	0.3617	0.4002
cmc	0.5617	0.3421	0.3425
cnae-9	0.9465	0.9375	0.9380
codon_usage	0.6737	0.8087	0.8134
coil20	1.0000	1.0000	1.0000
college	0.9345	0.8690	0.8690
collins	0.8949	0.9337	0.9354
colon-tumor	0.8182	0.5714	0.6325
colposcopies-1	0.6245	0.2209	0.2450
colposcopies-2	0.6556	0.1104	0.2417
colposcopies-4	0.7150	0.3873	0.4243
colposcopies-5	0.4528	0.0000	0.0000
colposcopies-c	0.7526	0.3777	0.4825
column-2c	0.9342	0.8597	0.8683
column-3c	0.7007	0.6353	0.6364
connect-4	0.6452	0.4354	0.5076
coupon	0.7149	0.4297	0.4297
covtype	0.9225	0.9208	0.9210
covtypeCD	0.9755	0.9507	0.9510
covtypeT	0.9377	0.8736	0.8753
crabs	0.9541	0.9333	0.9365
creditcard_trans	0.7290	0.4511	0.4561
crowdsourced	0.7920	0.8395	0.8429
cryotherapy	0.5500	0.1000	0.1000
cultivars	0.5235	0.5484	0.5540
cybersecurity	0.1397	-0.0327	0.0000
cyclopentane	0.7750	0.5500	0.5500
cylinder-bands	0.7629	0.4247	0.5192
datatrieve	0.4800	0.0000	0.0000
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Dataset	F1-macro	Kappa	MCC
dating	0.1073	0.0075	0.0075
dbworld	1.0000	1.0000	1.0000
default	0.7163	0.4286	0.4321
dementia	1.0000	1.0000	1.0000
deposit	0.7516	0.5002	0.5027
depressed	0.6278	0.1151	0.1954
dermatology	0.9429	0.9325	0.9325
desharnais	0.6061	0.7576	0.7828
df_final	0.7551	0.6049	0.6345
DIA	0.8179	0.5676	0.6295
diabetes-100k	0.8399	0.6279	0.6727
diagnosis	1.0000	1.0000	1.0000
diamonds	1.0000	1.0000	1.0000
diamonds_all	0.6963	0.5926	0.5997
dishonest	1.0000	1.0000	1.0000
dlbcl-nih	0.5391	0.0625	0.0756
dlbcl-stanford	0.8333	0.6154	0.6667
dna0.1%	0.4993	0.0000	0.0000
dota2	0.5668	0.1180	0.1327
drebin	0.9680	0.9356	0.9361
dropout	0.6890	0.6046	0.6146
ecoli	0.7465	0.8359	0.8380
ecoliCP-IM	1.0000	1.0000	1.0000
ecoliM	0.9175	0.8350	0.8350
ecoliMU	0.6474	0.2281	0.2797
ecoliOM	0.7339	0.4677	0.4677
ecommerce	0.2476	-0.0023	0.0000
euthyroid	0.9267	0.8527	0.8533
fakenews	0.5125	0.0250	0.0251
fbis-wc	0.5941	0.6091	0.6255
finance	0.7426	0.4751	0.4850
financial-risk	0.4718	0.5670	0.6019
flags	0.4697	0.6753	0.6876
forest	0.8906	0.8669	0.8710
gas	0.9944	0.9939	0.9939
gastrointestinal	0.5133	0.4737	0.5063
gender	0.4878	0.1528	0.1616
german	0.6980	0.3612	0.3928
gestures	0.8774	0.8334	0.8365
gina	0.8878	0.7753	0.7756
gisette	0.9216	0.8429	0.8433
glass	0.7366	0.7316	0.7341
glass-g2	1.0000	1.0000	1.0000
glassBWFP	0.8568	0.6736	0.7126
glassBWNFP	0.8955	0.7692	0.7906
glassContainers	0.8483	0.6452	0.6901
glassNW	0.9340	0.8591	0.8677
glassTableware	0.4884	0.0000	0.0000
GlaucomaM	0.7978	0.5824	0.5955
gli_85	0.8730	0.7143	0.7454
glioma	0.8333	0.7059	0.7500
glioma-grade	0.8845	0.7610	0.7689
green	0.6098	0.2105	0.2182
gsalc	1.0000	1.0000	1.0000
haberman	0.4431	-0.1111	0.0000
hapt	0.8264	0.9111	0.9119
har	0.9929	0.9916	0.9916
harth10%	0.5458	0.8009	0.8030
Continued on next page			

Dataset	F1-macro	Kappa	MCC
health-activity	0.2175	0.0000	0.0000
heart	0.7666	0.5263	0.5330
heart-c	0.9009	0.8000	0.8018
heart-failure	0.9861	0.9719	0.9722
heart-quantum	0.9423	0.8780	0.8847
hepatitis	0.7917	0.5833	0.5833
higher	0.2722	0.2174	0.2364
hinselmann	0.4444	0.0000	0.0000
hitters	0.9373	0.8745	0.8745
hiv1-proteasa	0.7390	0.3809	0.4575
hiva	0.5663	0.0917	0.1133
horse	0.3782	0.1479	0.1694
hotel-reservartions	0.8856	0.7708	0.7713
hr	0.4633	0.0000	0.0000
ht-sensor	0.9976	0.9963	0.9963
htru2	0.9351	0.8659	0.8701
hypothyroid	0.7021	0.8983	0.9017
immuno-therapy	0.6786	0.3571	0.3571
ionosphere	0.9337	0.8674	0.8674
iris	0.9333	0.8993	0.9054
irish	1.0000	1.0000	1.0000
isolet	0.8681	0.8612	0.8615
jm1	0.6479	0.2893	0.2945
jvowels	0.9535	0.9511	0.9512
kc1-class-level-numericdefect	0.1636	0.0000	0.0000
kc1-class-level-top5percentDF	0.4828	0.0000	0.0000
kc2	0.6935	0.3863	0.3869
kdc-4007	0.3247	0.0902	0.2031
kddcup991%	0.7559	0.9966	0.9966
kidney	0.1778	0.0000	0.0000
kidney-disease	1.0000	1.0000	1.0000
la2s-wc	0.4671	0.3362	0.4439
labor	1.0000	1.0000	1.0000
leaf	0.6740	0.6912	0.6982
led24	0.8046	0.7175	0.7299
lenses	0.3333	0.0000	0.0000
letter	0.9563	0.9547	0.9548
linkage1%	0.9634	0.9266	0.9268
loan	0.9687	0.9361	0.9374
lrs	0.6268	0.7903	0.7984
lung_discrete	0.7652	0.8367	0.8549
lymphography	0.4934	0.4510	0.4560
lymphoma2	0.4194	0.5000	0.5511
machine-failure	0.9251	0.8483	0.8501
magic04	0.8520	0.6982	0.7039
malware	1.0000	1.0000	1.0000
mammography	0.8745	0.7490	0.7490
marketing	0.7401	0.4355	0.4716
mba	0.4359	0.2944	0.2951
mental-disorders	0.9270	0.8889	0.8972
messidor	0.6816	0.3587	0.3631
meter-A	0.8000	0.5294	0.6000
meter-B	1.0000	1.0000	1.0000
meter-C	1.0000	1.0000	1.0000
meter-D	1.0000	1.0000	1.0000
mfeat-fac	0.9660	0.9611	0.9614
mfeat-fou	0.7991	0.7778	0.7784
mfeat-kar	0.9569	0.9500	0.9504
Continued on next page			

Dataset	F1-macro	Kappa	MCC
mfeat-mor	0.6820	0.6500	0.6510
mfeat-pix	0.9854	0.9833	0.9834
mfeat-zer	0.7744	0.7500	0.7505
mice-prot	1.0000	1.0000	1.0000
milk	1.0000	1.0000	1.0000
mines	0.4757	0.3384	0.3444
mobile	0.9409	0.9359	0.9361
monks-1	1.0000	1.0000	1.0000
monks-3	0.9824	0.9642	0.9648
mushroom	1.0000	1.0000	1.0000
music	0.5278	0.3854	0.3897
MUT_ci300400a_cdk_ECFP2	0.7262	0.4209	0.4523
MUT_ci300400a_cdk_ECFP4	0.7222	0.3885	0.4442
MUT_ci300400a_cdk_ECFP6	0.7171	0.3855	0.4341
MUT_ci300400a_cdk_ESTATE	0.7559	0.5096	0.5117
MUT_ci300400a_cdk_EXTENDED	0.7995	0.5966	0.5989
MUT_ci300400a_cdk_FCFP2	0.7449	0.4870	0.4898
MUT_ci300400a_cdk_FCFP4	0.6859	0.3344	0.3717
MUT_ci300400a_cdk_FCFP6	0.7230	0.4158	0.4460
MUT_ci300400a_cdk_MACCS	0.8088	0.6177	0.6177
MUT_ci300400a_cdk_PUBCHEM	0.8445	0.6877	0.6889
MUT_ci300400a_cdk_STANDARD	0.7831	0.5646	0.5662
MUT_ci300400a_rdkit_descriptors	0.8116	0.6228	0.6232
myocardial	0.2414	0.2917	0.4167
naticusdroid	0.9600	0.9196	0.9201
nci9	0.6061	0.6000	0.6708
ncRNA10%	0.6922	0.8250	0.8298
neo	0.7519	0.4103	0.4904
new-thyroid	1.0000	1.0000	1.0000
new-thyroidT	1.0000	1.0000	1.0000
newspop	0.6664	0.3327	0.3327
NHANES_age_prediction	0.9841	0.9677	0.9682
nomao	0.9468	0.8935	0.8936
nursery	0.9330	0.9423	0.9426
obesity	0.9386	0.9280	0.9288
obs	0.9901	0.9863	0.9865
oh0-wc	0.8038	0.7691	0.7776
oh10-wc	0.6163	0.5675	0.5998
oh15-wc	0.5997	0.5248	0.5743
oh5-wc	0.6982	0.6718	0.6855
olive	0.9174	0.9123	0.9157
optdigits	0.9644	0.9585	0.9585
orlraws10P	0.8743	0.8889	0.8989
ozone1hr	0.4909	0.0000	0.0000
p53-mutants10%	0.4992	0.0000	0.0000
parkinson	0.9915	0.9828	0.9830
particle	0.9066	0.8131	0.8132
pc1	0.6396	0.2671	0.2754
pcmac	0.3660	-0.0103	0.0000
pediatric-leukemia	0.5323	0.5917	0.6032
pendigits	0.9800	0.9777	0.9778
period-10f	0.5950	0.1818	0.1890
persistence	0.7942	0.5840	0.5884
personalities	0.9770	0.9755	0.9755
pet-adoption	0.8869	0.7590	0.7735
phishing	0.9442	0.8880	0.8883
PhiUSIL10%	0.9987	0.9974	0.9974
phy	0.7064	0.4128	0.4129
Continued on next page			

Dataset	F1-macro	Kappa	MCC
pima	0.7176	0.4154	0.4344
pirvision	0.9696	0.9647	0.9648
placement	0.7838	0.5676	0.5677
plrx	0.4000	-0.1020	0.0000
polya	0.7131	0.3984	0.4242
popularity	0.5399	0.2288	0.2723
post-operative	0.3571	-0.2000	0.0000
postures	0.9869	0.9838	0.9838
pred-tox_mutagen_ref-desc	0.7666	0.5294	0.5331
prestige	0.8889	0.8302	0.8462
primary-tumor	0.4139	0.3920	0.3998
processed	1.0000	1.0000	1.0000
profb	0.5946	0.1793	0.1878
promoters	0.9083	0.8000	0.8165
puc-rio	0.9878	0.9907	0.9907
pufs-1281%	0.5021	0.0035	0.0041
pufs-6410%	0.5050	0.0085	0.0098
pulsar	0.9485	0.8950	0.8969
raisin	0.9001	0.8000	0.8002
rejafada	1.0000	1.0000	1.0000
relathe	0.9929	0.9858	0.9859
rice	0.9867	0.9733	0.9734
rocket	0.7137	0.4260	0.4274
RT_IOT2022	0.9725	0.9916	0.9916
satimage	0.8815	0.8710	0.8719
scadi	0.6600	0.6316	0.6667
schiller	0.8333	0.6087	0.6614
sclerosis	1.0000	1.0000	1.0000
secom	0.4834	0.0000	0.0000
secondary_mushroom	0.9997	0.9993	0.9993
seeds	0.9553	0.9286	0.9317
segment	0.9574	0.9443	0.9446
segmentation	0.8405	0.6765	0.6810
segmentO	0.9916	0.9830	0.9831
seismic	0.6058	0.1566	0.1893
sens-2-gram	0.6772	0.0998	0.2292
sens-3-gram	0.6142	0.2175	0.2253
sens-4-gram	0.5598	0.1083	0.1169
sensorless	0.9986	0.9985	0.9985
shoppers	0.8035	0.6069	0.6070
sick	0.8698	0.7171	0.7371
sirtuin6	1.0000	1.0000	1.0000
smarket	0.9921	0.9840	0.9841
smk_can_187	0.7091	0.3804	0.4177
smoking	0.8055	0.5978	0.6109
soil_pollution	0.2206	0.0324	0.0325
solar-flare	0.7359	0.7054	0.7163
sonar	0.6094	0.2000	0.2182
soybean	0.9776	0.9517	0.9533
spam-detection	0.8671	0.7340	0.7341
spambase	0.9407	0.8809	0.8815
spect	0.4551	-0.0870	0.0000
spectf	0.8205	0.6392	0.6408
spectrometer	0.4814	0.5289	0.5374
squash-unstored	1.0000	1.0000	1.0000
startup	1.0000	1.0000	1.0000
steel_industry	0.8512	0.8078	0.8079
stellar	0.9655	0.9462	0.9463
Continued on next page			

Dataset	F1-macro	Kappa	MCC
stock	0.7976	0.5950	0.5951
stockb	1.0000	1.0000	1.0000
streaming	0.9231	0.8461	0.8462
stress	1.0000	1.0000	1.0000
student-depression	0.7911	0.5792	0.5822
student-habits	0.1735	0.0134	0.0144
student-lifestyle	0.3432	0.3720	0.3737
student-weekend	0.3174	0.1133	0.1273
student-workday	0.1651	0.0000	0.0000
studentap	0.4983	0.2909	0.3181
swarm_aligned	0.9971	0.9942	0.9942
swarm_flocking	0.9975	0.9950	0.9950
swarm_grouped	0.9973	0.9947	0.9947
tae	0.3964	0.1000	0.1021
telco-churn	0.8680	0.7347	0.7359
texture	0.9829	0.9800	0.9800
theorem	0.9461	0.8921	0.8922
thoracic	0.4535	-0.0387	0.0000
Thyroid_Diff	0.9048	0.7912	0.8090
tis	0.8098	0.5884	0.6169
titanic	0.7934	0.5163	0.5813
tourist	0.5250	0.6364	0.6848
trains	1.0000	1.0000	1.0000
transfusion	0.5665	0.1290	0.1325
tuandromd	0.9856	0.9711	0.9712
turkish	0.8305	0.7667	0.7712
tvnews	0.9060	0.8119	0.8120
ur3_cobotops_grip	0.7237	0.3245	0.4087
ur3_cobotops_stop	0.6856	0.3106	0.3517
urban	0.8512	0.8075	0.8112
ustilago10%	0.4973	-0.0004	0.0000
vehicle	0.7442	0.7099	0.7124
vote	0.9307	0.8605	0.8615
vowel	0.7632	0.7111	0.7192
wap-wc	0.3709	0.4025	0.4541
warpar10p	0.7241	0.7383	0.7591
warppie10p	1.0000	1.0000	1.0000
waveform	0.8499	0.7691	0.7738
weather-related	0.9762	0.9673	0.9674
weight-lift	0.9971	0.9965	0.9965
white-clover	0.6604	0.1818	0.3162
wifi-loc	0.9800	0.9733	0.9733
wilt	0.8904	0.7808	0.7808
wine	1.0000	1.0000	1.0000
winequality-red	0.3234	0.4586	0.4658
winequality-white	0.4379	0.4878	0.4958
winnipeg10%	0.9908	0.9852	0.9853
wisc.bc	0.9643	0.9261	0.9286
yale	0.7652	0.7983	0.8051
yeast	0.4756	0.4564	0.4691
yeastCYT-POX	0.9047	0.7897	0.8078
yeastEXC	0.6001	0.1981	0.1995
yeastME1	0.8715	0.7431	0.7431
yeastME2	0.6386	0.2055	0.2496
zip	0.9015	0.8975	0.8977

Table 72: Detailed results for Crazy OVA 10

Dataset	F1-macro	Kappa	MCC
abalone	0.1092	0.0709	0.0723
abalone19	0.4982	0.0000	0.0000
accelerometer	0.7098	0.1877	0.3218
ads	0.9076	0.7972	0.8141
adult	0.7876	0.5435	0.5738
advanced-iot	1.0000	1.0000	1.0000
AID_1431	0.4772	0.0000	0.0000
AID_1431_KlekotaRothFingerprinter	0.4772	0.0000	0.0000
AID_1431_MACCSFingerprinter	0.4728	-0.0276	0.0000
AID_1878	0.4948	-0.0075	0.0000
AID_602330	0.4866	-0.0169	0.0000
AID_652128	0.3118	0.0000	0.0000
AID1284red	0.4627	0.0000	0.0000
AID1608Moredred	0.7193	0.2370	0.3667
AID1608red	0.4798	-0.0300	0.0000
AID362red	0.4923	-0.0153	0.0000
AID373AID439red	0.4978	-0.0003	0.0000
AID373red	0.4997	-0.0005	0.0000
AID456red	0.4987	-0.0024	0.0000
AID604	0.6588	0.0582	0.1647
AID604AID644_AllRed	0.4996	-0.0008	0.0000
AID687AID721red	0.4993	-0.0009	0.0000
AID687red	0.4989	-0.0017	0.0000
AID688red	0.4976	-0.0007	0.0000
AID721moredred	0.4375	0.0000	0.0000
AID721red	0.4000	-0.1739	0.0000
AID746AID1284red	0.4995	-0.0010	0.0000
AID746red	0.5159	0.0278	0.0298
aids	0.8369	0.6735	0.6737
air_pollution	0.0826	0.0000	0.0000
alcohol	0.6497	0.6843	0.7020
all-aml	1.0000	1.0000	1.0000
anneal	0.9765	0.9538	0.9551
antivirus	1.0000	1.0000	1.0000
anuran-f-b	1.0000	1.0000	1.0000
anxiety	0.0882	-0.0232	0.0000
apple-quality	0.8086	0.6150	0.6172
aps-failure	0.8186	0.6201	0.6343
arabidopsis1%	0.4980	0.0000	0.0000
arcene	0.7292	0.4231	0.4583
arrhythmia	0.3970	0.4528	0.5255
auction	0.9777	0.9544	0.9554
audiology	0.6687	0.7805	0.7912
audit-risk	0.9869	0.9734	0.9737
autism-adolescent	1.0000	1.0000	1.0000
autism-adult	1.0000	1.0000	1.0000
autism-child	1.0000	1.0000	1.0000
autos	0.8576	0.8020	0.8102
avila	0.9974	0.9988	0.9988
balance	0.6756	0.6029	0.6082
bank	0.7539	0.5071	0.5077
bankruptcy	1.0000	1.0000	1.0000
bio	0.8611	0.6814	0.7164
biodeg	0.8675	0.7337	0.7350
biomed	1.0000	1.0000	1.0000

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Dataset	F1-macro	Kappa	MCC
bitcoin10%	0.3124	0.2501	0.2684
body-perf	0.7258	0.6299	0.6343
brain-tumor	0.5031	0.0054	0.0061
breast-cancer	0.6826	0.3636	0.3651
breast-cancer-ma	0.5345	0.0678	0.0690
breast-tissue	0.7179	0.6733	0.6869
bridges	0.7895	0.8571	0.8697
bub12at310k-hg16-17	0.7050	0.3973	0.4070
cad	0.9629	0.9231	0.9258
cancer	1.0000	1.0000	1.0000
cancer-uae	0.3187	0.0058	0.0066
car-insurance	0.8121	0.6219	0.6241
cardiotocography-nsp	0.8159	0.7279	0.7312
cardiovascular	0.7303	0.4568	0.4606
cargo2k	1.0000	1.0000	1.0000
cars	0.6659	0.5638	0.5725
ccds10%	0.5727	0.0469	0.0882
cdc_diabetes	0.4518	0.2882	0.3108
census	0.7599	0.4885	0.4789
cervical-B	0.7962	0.5764	0.5897
cervical-H	0.7090	0.4142	0.4170
cervical-S	0.8046	0.5212	0.5936
children-anemia	0.8121	0.8868	0.8888
chrom19	0.9565	0.8895	0.8910
chrom211%	0.4998	0.0000	0.0000
churn	0.7455	0.4903	0.4909
cjs	1.0000	1.0000	1.0000
ckd	1.0000	1.0000	1.0000
clave	0.6806	0.6486	0.6532
cll_sub_111	0.6369	0.3023	0.3061
cmc	0.5420	0.3135	0.3178
cnae-9	0.9544	0.9479	0.9480
codon_usage	0.6793	0.8212	0.8254
coil20	1.0000	1.0000	1.0000
college	0.9345	0.8690	0.8690
collins	0.9097	0.9559	0.9568
colon-tumor	0.8182	0.5714	0.6325
colposcopies-1	0.6245	0.2209	0.2450
colposcopies-2	0.6915	0.2162	0.3482
colposcopies-4	0.5964	0.1920	0.1927
colposcopies-5	0.4528	0.0000	0.0000
colposcopies-c	0.7526	0.3777	0.4825
column-2c	0.9061	0.7947	0.8120
column-3c	0.6845	0.6303	0.6338
connect-4	0.7407	0.6961	0.6966
coupon	0.7218	0.4430	0.4436
covtype	0.9431	0.9382	0.9328
covtypeCD	0.9711	0.9414	0.9422
covtypeT	0.9174	0.8295	0.8345
crabs	0.9541	0.9333	0.9365
creditcard_trans	0.7227	0.4308	0.4413
crowdsourced	0.7924	0.8408	0.8431
cryotherapy	0.5500	0.1000	0.1000
cultivars	0.5774	0.6129	0.6192
cybersecurity	0.1828	0.0221	0.0222
cyclopentane	0.7072	0.4098	0.4144
cylinder-bands	0.7629	0.4247	0.5192
datatrieve	0.4800	0.0000	0.0000
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Dataset	F1-macro	Kappa	MCC
dating	0.1019	0.0024	0.0024
dbworld	1.0000	1.0000	1.0000
default	0.7142	0.4256	0.4280
dementia	1.0000	1.0000	1.0000
deposit	0.7381	0.4710	0.4753
depressed	0.5942	0.0997	0.1508
dermatology	0.9429	0.9325	0.9325
desharnais	0.5455	0.5556	0.6063
df_final	0.8040	0.7143	0.7186
DIA	0.8179	0.5676	0.6295
diabetes-100k	0.8540	0.6605	0.7022
diagnosis	1.0000	1.0000	1.0000
diamonds	1.0000	1.0000	1.0000
diamonds_all	0.7296	0.6336	0.6418
dishonest	1.0000	1.0000	1.0000
dlbcl-nih	0.6091	0.2174	0.2182
dlbcl-stanford	0.8333	0.6154	0.6667
dna0.1%	0.4993	0.0000	0.0000
dota2	0.5669	0.1325	0.1337
drebin	0.9695	0.9385	0.9391
dropout	0.6808	0.5932	0.6034
ecoli	0.6893	0.7521	0.7617
ecoliCP-IM	1.0000	1.0000	1.0000
ecoliM	0.9175	0.8350	0.8350
ecoliMU	0.6474	0.2281	0.2797
ecoliOM	0.8514	0.6526	0.6960
ecommerce	0.2320	-0.0263	0.0000
euthyroid	0.9106	0.8212	0.8212
fakenews	0.5248	0.0403	0.0487
fbis-wc	0.7371	0.7260	0.7319
finance	0.7414	0.4792	0.4827
financial-risk	0.4752	0.5610	0.6013
flags	0.4994	0.7419	0.7550
forest	0.8906	0.8669	0.8710
gas	0.9944	0.9939	0.9939
gastrointestinal	0.7526	0.5844	0.6009
gender	0.5072	0.1801	0.1846
german	0.7001	0.3882	0.3995
gestures	0.8729	0.8299	0.8307
gina	0.8970	0.7927	0.7940
gisette	0.9276	0.8543	0.8553
glass	0.7366	0.7316	0.7341
glass-g2	1.0000	1.0000	1.0000
glassBWFP	0.9032	0.7879	0.8062
glassBWNFP	0.9472	0.8889	0.8944
glassContainers	0.8483	0.6452	0.6901
glassNW	0.9340	0.8591	0.8677
glassTableware	0.4884	0.0000	0.0000
GlaucomaM	0.7978	0.5824	0.5955
gli_85	1.0000	1.0000	1.0000
glioma	0.8333	0.7059	0.7500
glioma-grade	0.8845	0.7610	0.7689
green	0.6098	0.2105	0.2182
gsalc	1.0000	1.0000	1.0000
haberman	0.4227	-0.1538	0.0000
hapt	0.8154	0.9155	0.9161
har	0.9924	0.9910	0.9910
harth10%	0.5577	0.8217	0.8063
Continued on next page			

Dataset	F1-macro	Kappa	MCC
health-activity	0.2175	0.0000	0.0000
heart	0.7666	0.5263	0.5330
heart-c	0.9009	0.8000	0.8018
heart-failure	0.9861	0.9719	0.9722
heart-quantum	0.9423	0.8780	0.8847
hepatitis	0.7917	0.5833	0.5833
higher	0.2447	0.1195	0.1314
hinselmann	0.4444	0.0000	0.0000
hitters	0.9373	0.8745	0.8745
hiv1-proteasa	0.7474	0.4036	0.4766
hiva	0.5844	0.1005	0.1361
horse	0.5626	0.2340	0.2478
hotel-reservartions	0.8828	0.7653	0.7655
hr	0.4633	0.0000	0.0000
ht-sensor	1.0000	1.0000	1.0000
htru2	0.9351	0.8659	0.8701
hypothyroid	0.6961	0.8863	0.8868
immuno-therapy	0.6786	0.3571	0.3571
ionosphere	0.9337	0.8674	0.8674
iris	0.9333	0.8993	0.9054
irish	1.0000	1.0000	1.0000
isolet	0.8805	0.8745	0.8748
jm1	0.6703	0.3381	0.3402
jvowels	0.9687	0.9670	0.9671
kc1-class-level-numericdefect	0.1636	0.0000	0.0000
kc1-class-level-top5percentDF	0.4828	0.0000	0.0000
kc2	0.7312	0.4595	0.4622
kdc-4007	0.8396	0.8079	0.8093
kddcup991%	0.8156	0.9979	0.9979
kidney	0.1778	0.0000	0.0000
kidney-disease	1.0000	1.0000	1.0000
la2s-wc	0.7751	0.7005	0.7209
labor	1.0000	1.0000	1.0000
leaf	0.7117	0.7523	0.7606
led24	0.7684	0.7167	0.7208
lenses	0.3333	0.0000	0.0000
letter	0.9534	0.9516	0.9517
linkage1%	0.9634	0.9266	0.9268
loan	0.9615	0.9214	0.9230
lrs	0.6382	0.8176	0.8253
lung_discrete	0.7652	0.8367	0.8549
lymphography	0.5520	0.6000	0.6181
lymphoma2	0.6027	0.6842	0.7120
machine-failure	0.9251	0.8483	0.8501
magic04	0.8520	0.6991	0.7039
malware	1.0000	1.0000	1.0000
mammography	0.8745	0.7490	0.7490
marketing	0.7401	0.4355	0.4716
mba	0.4546	0.3356	0.3536
mental-disorders	0.9270	0.8889	0.8972
messidor	0.6767	0.3458	0.3534
meter-A	0.8000	0.5294	0.6000
meter-B	1.0000	1.0000	1.0000
meter-C	1.0000	1.0000	1.0000
meter-D	1.0000	1.0000	1.0000
mfeat-fac	0.9608	0.9556	0.9558
mfeat-fou	0.7915	0.7667	0.7677
mfeat-kar	0.9605	0.9556	0.9557
Continued on next page			

Dataset	F1-macro	Kappa	MCC
mfeat-mor	0.7328	0.7000	0.7009
mfeat-pix	0.9804	0.9778	0.9779
mfeat-zer	0.7877	0.7611	0.7613
mice-prot	1.0000	1.0000	1.0000
milk	1.0000	1.0000	1.0000
mines	0.5158	0.4113	0.4162
mobile	0.9643	0.9608	0.9610
monks-1	1.0000	1.0000	1.0000
monks-3	0.9824	0.9642	0.9648
mushroom	1.0000	1.0000	1.0000
music	0.5164	0.3776	0.3811
MUT_ci300400a_cdk_ECFP2	0.7352	0.4328	0.4704
MUT_ci300400a_cdk_ECFP4	0.7259	0.4046	0.4518
MUT_ci300400a_cdk_ECFP6	0.7094	0.3793	0.4188
MUT_ci300400a_cdk_ESTATE	0.7509	0.4978	0.5018
MUT_ci300400a_cdk_EXTENDED	0.8087	0.6144	0.6175
MUT_ci300400a_cdk_FCFP2	0.7485	0.4888	0.4970
MUT_ci300400a_cdk_FCFP4	0.6970	0.3631	0.3940
MUT_ci300400a_cdk_FCFP6	0.7201	0.4193	0.4402
MUT_ci300400a_cdk_MACCS	0.8005	0.6009	0.6009
MUT_ci300400a_cdk_PUBCHEM	0.8338	0.6650	0.6675
MUT_ci300400a_cdk_STANDARD	0.7891	0.5757	0.5783
MUT_ci300400a_rdkit_descriptors	0.8083	0.6149	0.6167
myocardial	0.3102	0.3867	0.4911
naticusdroid	0.9640	0.9278	0.9281
nci9	0.6061	0.6000	0.6708
ncRNA10%	0.7151	0.8249	0.8461
neo	0.7518	0.4079	0.4899
new-thyroid	1.0000	1.0000	1.0000
new-thyroidT	1.0000	1.0000	1.0000
newspop	0.6633	0.3222	0.3266
NHANES_age_prediction	0.9841	0.9677	0.9682
nomao	0.9463	0.8926	0.8926
nursery	0.9048	0.9307	0.9313
obesity	0.9386	0.9280	0.9288
obs	1.0000	1.0000	1.0000
oh0-wc	0.9469	0.9435	0.9438
oh10-wc	0.8235	0.7937	0.7990
oh15-wc	0.8962	0.8757	0.8793
oh5-wc	0.9168	0.9006	0.9016
olive	0.9174	0.9123	0.9157
optdigits	0.9684	0.9624	0.9626
orlraws10P	0.8743	0.8889	0.8989
ozone1hr	0.4909	0.0000	0.0000
p53-mutants10%	0.4992	0.0000	0.0000
parkinson	0.9915	0.9828	0.9830
particle	0.9035	0.8070	0.8070
pc1	0.6214	0.2387	0.2415
pcmac	0.3681	0.0000	0.0000
pediatric-leukemia	0.5607	0.6280	0.6472
pendigits	0.9847	0.9828	0.9828
period-10f	0.5000	0.0000	0.0000
persistence	0.7942	0.5840	0.5884
personalities	0.9739	0.9721	0.9721
pet-adoption	0.8797	0.7501	0.7592
phishing	0.9485	0.8968	0.8970
PhiUSIL10%	0.9987	0.9974	0.9974
phy	0.7049	0.4075	0.4097
Continued on next page			

Dataset	F1-macro	Kappa	MCC
pima	0.7324	0.4480	0.4642
pirvision	0.9700	0.9629	0.9629
placement	0.7799	0.5597	0.5598
plrx	0.4000	-0.1020	0.0000
polya	0.7264	0.4325	0.4516
popularity	0.5559	0.2797	0.2983
post-operative	0.3571	-0.2000	0.0000
postures	0.9863	0.9832	0.9832
pred-tox_mutagen_ref-desc	0.7652	0.5294	0.5303
prestige	0.8889	0.8302	0.8462
primary-tumor	0.3791	0.3333	0.3452
processed	1.0000	1.0000	1.0000
profb	0.5795	0.1528	0.1582
promoters	0.9083	0.8000	0.8165
puc-rio	0.9882	0.9908	0.9908
pufs-1281%	0.4902	-0.0057	0.0000
pufs-6410%	0.5027	0.0019	0.0041
pulsar	0.9485	0.8950	0.8969
raisin	0.9001	0.8000	0.8002
rejabatada	1.0000	1.0000	1.0000
relathe	0.9929	0.9858	0.9859
rice	0.9862	0.9722	0.9723
rocket	0.7031	0.4003	0.4061
RT_IOT2022	0.9834	1.0000	0.9972
satimage	0.8710	0.8594	0.8603
scadi	0.6600	0.6316	0.6667
schiller	0.8333	0.6087	0.6614
sclerosis	1.0000	1.0000	1.0000
secom	0.4834	0.0000	0.0000
secondary_mushroom	0.9997	0.9993	0.9993
seeds	0.9553	0.9286	0.9317
segment	0.9698	0.9595	0.9598
segmentation	0.8277	0.6484	0.6553
segmentO	1.0000	1.0000	1.0000
seismic	0.5437	0.0628	0.0760
sens-2-gram	0.6620	0.1770	0.2683
sens-3-gram	0.6035	0.1956	0.2036
sens-4-gram	0.5619	0.1234	0.1237
sensorless	0.9981	0.9979	0.9979
shoppers	0.7940	0.5876	0.5879
sick	0.8829	0.7484	0.7640
sirtuin6	1.0000	1.0000	1.0000
smarket	0.9921	0.9840	0.9841
smk_can_187	0.6910	0.3736	0.3820
smoking	0.8008	0.5802	0.6014
soil_pollution	0.2249	0.0433	0.0441
solar-flare	0.7167	0.7138	0.7159
sonar	0.5525	0.1000	0.1048
soybean	1.0000	1.0000	1.0000
spam-detection	0.8659	0.7317	0.7317
spambase	0.9407	0.8811	0.8815
spect	0.4551	-0.0870	0.0000
spectf	0.8205	0.6392	0.6408
spectrometer	0.4645	0.5085	0.5178
squash-unstored	1.0000	1.0000	1.0000
startup	1.0000	1.0000	1.0000
steel_industry	0.8513	0.8075	0.8076
stellar	0.9665	0.9478	0.9479
Continued on next page			

Dataset	F1-macro	Kappa	MCC
stock	0.7888	0.5776	0.5776
stockb	1.0000	1.0000	1.0000
streaming	0.9251	0.8502	0.8503
stress	1.0000	1.0000	1.0000
student-depression	0.7809	0.5587	0.5618
student-habits	0.1823	0.0446	0.0483
student-lifestyle	0.3401	0.3704	0.3726
student-weekend	0.2719	0.0951	0.1005
student-workday	0.2784	0.1513	0.2826
studentap	0.5664	0.4091	0.4129
swarm_aligned	0.9966	0.9932	0.9932
swarm_flocking	0.9979	0.9958	0.9958
swarm_grouped	0.9969	0.9938	0.9938
tae	0.3964	0.1000	0.1021
telco-churn	0.8659	0.7305	0.7318
texture	0.9829	0.9800	0.9800
theorem	0.9462	0.8923	0.8923
thoracic	0.4471	-0.0709	0.0000
Thyroid_Diff	0.9365	0.8648	0.8728
tis	0.8327	0.6525	0.6645
titanic	0.7934	0.5163	0.5813
tourist	0.5250	0.6364	0.6848
trains	1.0000	1.0000	1.0000
transfusion	0.5665	0.1290	0.1325
tuandromd	0.9859	0.9713	0.9717
turkish	0.8062	0.7333	0.7408
tvnews	0.9459	0.8819	0.8880
ur3_cobotops_grip	0.7083	0.3521	0.3972
ur3_cobotops_stop	0.7288	0.4246	0.4490
urban	0.8392	0.7904	0.7937
ustilago10%	0.4973	-0.0004	0.0000
vehicle	0.7065	0.6768	0.6777
vote	0.9307	0.8605	0.8615
vowel	0.7686	0.7000	0.7142
wap-wc	0.2984	0.2766	0.3907
warpar10p	0.7059	0.7400	0.7553
warppie10p	1.0000	1.0000	1.0000
waveform	0.8469	0.7631	0.7692
weather-related	0.9738	0.9673	0.9675
weight-lift	0.9972	0.9965	0.9965
white-clover	0.6604	0.1818	0.3162
wifi-loc	0.9902	0.9867	0.9868
wilt	0.8771	0.7540	0.7542
wine	1.0000	1.0000	1.0000
winequality-red	0.3396	0.5105	0.5157
winequality-white	0.4526	0.4880	0.4939
winnipeg10%	0.9908	0.9852	0.9853
wisc.bc	0.9643	0.9261	0.9286
yale	0.7652	0.7983	0.8051
yeast	0.4403	0.4328	0.4380
yeastCYT-POX	0.9047	0.7897	0.8078
yeastEXC	0.6001	0.1981	0.1995
yeastME1	0.7845	0.5613	0.5674
yeastME2	0.6386	0.2055	0.2496
zip	0.9214	0.9180	0.9181

Table 73: Detailed results for Crazier OVA 10

Dataset	F1-macro	Kappa	MCC
abalone	0.1156	0.0889	0.0907
abalone19	0.4982	0.0000	0.0000
accelerometer	0.7025	0.1589	0.2938
ads	0.9076	0.7972	0.8141
adult	0.7849	0.5393	0.5685
advanced-iot	1.0000	1.0000	1.0000
AID_1431	0.4772	0.0000	0.0000
AID_1431_KlekotaRothFingerprinter	0.4772	0.0000	0.0000
AID_1431_MACCSFingerprinter	0.4728	-0.0276	0.0000
AID_1878	0.4474	-0.0184	0.0000
AID_602330	0.4866	-0.0169	0.0000
AID_652128	0.3118	0.0000	0.0000
AID1284red	0.4627	0.0000	0.0000
AID1608Morered	0.7193	0.2370	0.3667
AID1608red	0.4824	-0.0169	0.0000
AID362red	0.4935	-0.0129	0.0000
AID373AID439red	0.4989	-0.0003	0.0000
AID373red	0.5467	0.0540	0.0725
AID456red	0.4987	-0.0024	0.0000
AID604	0.6589	0.0585	0.1652
AID604AID644_AllRed	0.4976	-0.0018	0.0000
AID687AID721red	0.4993	-0.0009	0.0000
AID687red	0.4989	-0.0017	0.0000
AID688red	0.4977	0.0000	0.0000
AID721morered	0.4375	0.0000	0.0000
AID721red	0.4000	-0.1739	0.0000
AID746AID1284red	0.4982	-0.0017	0.0000
AID746red	0.5209	0.0410	0.0415
aids	0.8294	0.6588	0.6588
air_pollution	0.0826	0.0000	0.0000
alcohol	0.6745	0.6751	0.7023
all-aml	0.8182	0.5714	0.6325
anneal	0.9872	0.9766	0.9769
antivirus	1.0000	1.0000	1.0000
anuran-f-b	1.0000	1.0000	1.0000
anxiety	0.1096	0.0052	0.0053
apple-quality	0.8015	0.6000	0.6030
aps-failure	0.7029	0.3762	0.3972
arabidopsis1%	0.4980	0.0000	0.0000
arcene	0.7292	0.4231	0.4583
arrhythmia	0.3970	0.4528	0.5255
auction	0.9777	0.9544	0.9554
audiology	0.6687	0.7805	0.7912
audit-risk	1.0000	1.0000	1.0000
autism-adolescent	1.0000	1.0000	1.0000
autism-adult	1.0000	1.0000	1.0000
autism-child	1.0000	1.0000	1.0000
autos	0.8576	0.8020	0.8102
avila	0.9974	0.9988	0.9988
balance	0.6153	0.5638	0.5736
bank	0.7544	0.5081	0.5086
bankruptcy	1.0000	1.0000	1.0000
bio	0.8686	0.7011	0.7323
biodeg	0.8675	0.7337	0.7350
biomed	1.0000	1.0000	1.0000
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Dataset	F1-macro	Kappa	MCC
bitcoin10%	0.2957	0.3889	0.3894
body-perf	0.7223	0.6259	0.6304
brain-tumor	0.5043	0.0084	0.0085
breast-cancer	0.5913	0.1818	0.1826
breast-cancer-ma	0.5345	0.0678	0.0690
breast-tissue	0.7179	0.6733	0.6869
bridges	0.7742	0.7297	0.7404
bub12at310k-hg16-17	0.7032	0.3821	0.3928
cad	0.9629	0.9231	0.9258
cancer	1.0000	1.0000	1.0000
cancer-uae	0.3125	-0.0084	0.0000
car-insurance	0.8130	0.6238	0.6260
cardiotocography-nsp	0.8414	0.7571	0.7596
cardiovascular	0.7302	0.4565	0.4603
cargo2k	1.0000	1.0000	1.0000
cars	0.6659	0.5638	0.5725
ccds10%	0.5727	0.0469	0.0882
cdc_diabetes	0.4472	0.3181	0.3338
census	0.7372	0.4603	0.4712
cervical-B	0.7962	0.5764	0.5897
cervical-H	0.7090	0.4142	0.4170
cervical-S	0.8046	0.5212	0.5936
children-anemia	0.8256	0.8880	0.8898
chrom19	0.9156	0.8299	0.8311
chrom211%	0.4998	0.0000	0.0000
churn	0.7624	0.5221	0.5244
cjs	1.0000	1.0000	1.0000
ckd	1.0000	1.0000	1.0000
clave	0.6845	0.6464	0.6480
cll_sub_111	0.7222	0.4545	0.4545
cmc	0.5619	0.3493	0.3516
cnae-9	0.9726	0.9688	0.9688
codon_usage	0.6881	0.8260	0.8299
coil20	1.0000	1.0000	1.0000
college	0.9345	0.8690	0.8690
collins	0.9847	0.9780	0.9784
colon-tumor	0.8182	0.5714	0.6325
colposcopies-1	0.6245	0.2209	0.2450
colposcopies-2	0.7264	0.3176	0.4345
colposcopies-4	0.6284	0.2516	0.2561
colposcopies-5	0.4528	0.0000	0.0000
colposcopies-c	0.7526	0.3777	0.4825
column-2c	0.9342	0.8597	0.8683
column-3c	0.7333	0.6810	0.6898
connect-4	0.7654	0.7399	0.7408
coupon	0.7172	0.4344	0.4344
covtype	0.9377	0.9125	0.9314
covtypeCD	0.9755	0.9507	0.9510
covtypeT	0.9382	0.8754	0.8763
crabs	0.9541	0.9333	0.9365
creditcard_trans	0.7195	0.4166	0.4326
crowdsourced	0.7980	0.8537	0.8553
cryotherapy	0.5500	0.1000	0.1000
cultivars	0.5459	0.5806	0.5872
cybersecurity	0.1903	0.0309	0.0309
cyclopentane	0.7750	0.5500	0.5500
cylinder-bands	0.7629	0.4247	0.5192
datatrieve	0.4800	0.0000	0.0000
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Dataset	F1-macro	Kappa	MCC
dating	0.1063	0.0069	0.0069
dbworld	1.0000	1.0000	1.0000
default	0.7159	0.4285	0.4315
dementia	1.0000	1.0000	1.0000
deposit	0.7523	0.5021	0.5042
depressed	0.6278	0.1151	0.1954
dermatology	0.9429	0.9325	0.9325
desharnais	0.6061	0.7576	0.7828
df_final	0.8272	0.7108	0.7243
DIA	0.8179	0.5676	0.6295
diabetes-100k	0.8885	0.7500	0.7746
diagnosis	1.0000	1.0000	1.0000
diamonds	1.0000	1.0000	1.0000
diamonds_all	0.7305	0.6339	0.6415
dishonest	1.0000	1.0000	1.0000
dlbcl-nih	0.5491	0.0909	0.0976
dlbcl-stanford	0.8333	0.6154	0.6667
dna0.1%	0.4993	0.0000	0.0000
dota2	0.5701	0.1412	0.1468
drebin	0.9688	0.9370	0.9376
dropout	0.6627	0.5836	0.5951
ecoli	0.7174	0.7942	0.7992
ecoliCP-IM	1.0000	1.0000	1.0000
ecoliM	0.9175	0.8350	0.8350
ecoliMU	0.6474	0.2281	0.2797
ecoliOM	0.8514	0.6526	0.6960
ecommerce	0.2288	-0.0267	0.0000
euthyroid	0.9267	0.8527	0.8533
fakenews	0.5008	0.0015	0.0015
fbis-wc	0.7441	0.7306	0.7369
finance	0.7426	0.4751	0.4850
financial-risk	0.4798	0.5706	0.6099
flags	0.6212	0.7452	0.7552
forest	0.8906	0.8669	0.8710
gas	0.9944	0.9939	0.9939
gastrointestinal	0.5133	0.4737	0.5063
gender	0.4910	0.1638	0.1713
german	0.7109	0.3990	0.4201
gestures	0.8819	0.8425	0.8432
gina	0.8933	0.7866	0.7866
gisette	0.9273	0.8543	0.8546
glass	0.7366	0.7316	0.7341
glass-g2	1.0000	1.0000	1.0000
glassBWFP	0.8568	0.6736	0.7126
glassBWNFP	0.8955	0.7692	0.7906
glassContainers	0.8483	0.6452	0.6901
glassNW	0.9340	0.8591	0.8677
glassTableware	0.4884	0.0000	0.0000
GlaucomaM	0.7978	0.5824	0.5955
gli_85	0.8730	0.7143	0.7454
glioma	0.8333	0.7059	0.7500
glioma-grade	0.8845	0.7610	0.7689
green	0.6098	0.2105	0.2182
gsalc	1.0000	1.0000	1.0000
haberman	0.4431	-0.1111	0.0000
hapt	0.8331	0.9198	0.9203
har	0.9935	0.9923	0.9923
harth10%	0.5599	0.8137	0.8158
Continued on next page			

Dataset	F1-macro	Kappa	MCC
health-activity	0.2175	0.0000	0.0000
heart	0.7666	0.5263	0.5330
heart-c	0.9009	0.8000	0.8018
heart-failure	0.9861	0.9719	0.9722
heart-quantum	0.9423	0.8780	0.8847
hepatitis	0.7917	0.5833	0.5833
higher	0.2722	0.2174	0.2364
hinselmann	0.4444	0.0000	0.0000
hitters	0.9373	0.8745	0.8745
hiv1-proteasa	0.7474	0.4036	0.4766
hiva	0.5663	0.0917	0.1133
horse	0.3848	0.1676	0.1824
hotel-reservartions	0.8852	0.7701	0.7704
hr	0.4633	0.0000	0.0000
ht-sensor	0.9978	0.9967	0.9967
htru2	0.9351	0.8659	0.8701
hypothyroid	0.7192	0.9176	0.9187
immuno-therapy	0.6786	0.3571	0.3571
ionosphere	0.9337	0.8674	0.8674
iris	1.0000	1.0000	1.0000
irish	1.0000	1.0000	1.0000
isolet	0.8832	0.8772	0.8774
jm1	0.6523	0.2977	0.3032
jvowels	0.9674	0.9659	0.9659
kc1-class-level-numericdefect	0.1636	0.0000	0.0000
kc1-class-level-top5percentDF	0.4828	0.0000	0.0000
kc2	0.6935	0.3863	0.3869
kdc-4007	0.8308	0.7992	0.8001
kddcup991%	0.9895	0.9896	1.0000
kidney	0.1778	0.0000	0.0000
kidney-disease	1.0000	1.0000	1.0000
la2s-wc	0.7390	0.6492	0.6800
labor	1.0000	1.0000	1.0000
leaf	0.7117	0.7523	0.7606
led24	0.8240	0.7740	0.7806
lenses	0.3333	0.0000	0.0000
letter	0.9545	0.9527	0.9527
linkage1%	0.9634	0.9266	0.9268
loan	0.9638	0.9262	0.9276
lrs	0.6405	0.8169	0.8256
lung_discrete	0.7652	0.8367	0.8549
lymphography	0.5520	0.6000	0.6181
lymphoma2	0.6027	0.6842	0.7120
machine-failure	0.9251	0.8483	0.8501
magic04	0.8490	0.6934	0.6979
malware	1.0000	1.0000	1.0000
mammography	0.8745	0.7490	0.7490
marketing	0.7401	0.4355	0.4716
mba	0.4353	0.2988	0.3010
mental-disorders	0.9270	0.8889	0.8972
messidor	0.6716	0.3399	0.3432
meter-A	0.8873	0.7500	0.7746
meter-B	0.9167	0.8302	0.8462
meter-C	1.0000	1.0000	1.0000
meter-D	1.0000	1.0000	1.0000
mfeat-fac	0.9660	0.9611	0.9614
mfeat-fou	0.7686	0.7444	0.7450
mfeat-kar	0.9505	0.9444	0.9445
Continued on next page			

Dataset	F1-macro	Kappa	MCC
mfeat-mor	0.7202	0.6833	0.6842
mfeat-pix	0.9854	0.9833	0.9834
mfeat-zer	0.7681	0.7444	0.7446
mice-prot	1.0000	1.0000	1.0000
milk	1.0000	1.0000	1.0000
mines	0.5174	0.4119	0.4169
mobile	0.9575	0.9537	0.9539
monks-1	1.0000	1.0000	1.0000
monks-3	0.9824	0.9642	0.9648
mushroom	1.0000	1.0000	1.0000
music	0.5225	0.3775	0.3812
MUT_ci300400a_cdk_ECFP2	0.7307	0.4314	0.4615
MUT_ci300400a_cdk_ECFP4	0.7222	0.3917	0.4443
MUT_ci300400a_cdk_ECFP6	0.7119	0.3749	0.4237
MUT_ci300400a_cdk_ESTATE	0.7591	0.5163	0.5181
MUT_ci300400a_cdk_EXTENDED	0.8024	0.6031	0.6049
MUT_ci300400a_cdk_FCFP2	0.7550	0.5057	0.5099
MUT_ci300400a_cdk_FCFP4	0.6914	0.3466	0.3828
MUT_ci300400a_cdk_FCFP6	0.7236	0.4191	0.4472
MUT_ci300400a_cdk_MACCS	0.8036	0.6072	0.6072
MUT_ci300400a_cdk_PUBCHEM	0.8394	0.6777	0.6787
MUT_ci300400a_cdk_STANDARD	0.7812	0.5613	0.5624
MUT_ci300400a_rdkit_descriptors	0.8126	0.6249	0.6252
myocardial	0.3102	0.3867	0.4911
naticusdroid	0.9570	0.9134	0.9140
nci9	0.7895	0.8000	0.8281
ncRNA10%	0.6996	0.8306	0.8336
neo	0.7508	0.4054	0.4877
new-thyroid	1.0000	1.0000	1.0000
new-thyroidT	1.0000	1.0000	1.0000
newspop	0.6692	0.3380	0.3383
NHANES_age_prediction	0.9841	0.9677	0.9682
nomao	0.9476	0.8951	0.8951
nursery	0.9343	0.9433	0.9438
obesity	0.9386	0.9280	0.9288
obs	1.0000	1.0000	1.0000
oh0-wc	0.9542	0.9434	0.9438
oh10-wc	0.8067	0.7718	0.7775
oh15-wc	0.8946	0.8758	0.8794
oh5-wc	0.8908	0.8756	0.8765
olive	0.9174	0.9123	0.9157
optdigits	0.9702	0.9644	0.9645
orlraws10P	0.8743	0.8889	0.8989
ozone1hr	0.4909	0.0000	0.0000
p53-mutants10%	0.4992	0.0000	0.0000
parkinson	0.9915	0.9828	0.9830
particle	0.9049	0.8098	0.8098
pc1	0.6214	0.2387	0.2415
pcmac	0.3681	0.0000	0.0000
pediatric-leukemia	0.5607	0.6280	0.6472
pendigits	0.9863	0.9848	0.9848
period-10f	0.5000	0.0000	0.0000
persistence	0.7976	0.5911	0.5950
personalities	0.9747	0.9730	0.9730
pet-adoption	0.8861	0.7610	0.7719
phishing	0.9399	0.8792	0.8797
PhiUSIL10%	0.9987	0.9974	0.9974
phy	0.7088	0.4170	0.4175
Continued on next page			

Dataset	F1-macro	Kappa	MCC
pima	0.7027	0.3824	0.4041
pirvision	0.9668	0.9611	0.9612
placement	0.7848	0.5695	0.5696
plrx	0.4000	-0.1020	0.0000
polya	0.7148	0.3979	0.4271
popularity	0.5453	0.2466	0.2830
post-operative	0.3571	-0.2000	0.0000
postures	0.9870	0.9840	0.9840
pred-tox_mutagen_ref-desc	0.7795	0.5588	0.5591
prestige	0.8889	0.8302	0.8462
primary-tumor	0.3791	0.3333	0.3452
processed	1.0000	1.0000	1.0000
profb	0.5553	0.1047	0.1097
promoters	0.9083	0.8000	0.8165
puc-rio	0.9873	0.9902	0.9902
pufs-1281%	0.4907	-0.0172	0.0000
pufs-6410%	0.4993	-0.0014	0.0000
pulsar	0.9485	0.8950	0.8969
raisin	0.9001	0.8000	0.8002
rejafada	1.0000	1.0000	1.0000
relathe	0.9929	0.9858	0.9859
rice	0.9873	0.9744	0.9745
rocket	0.7032	0.4056	0.4063
RT_IOT2022	0.9790	1.0000	0.9857
satimage	0.8719	0.8612	0.8624
scadi	0.6600	0.6316	0.6667
schiller	0.8333	0.6087	0.6614
sclerosis	1.0000	1.0000	1.0000
secom	0.4834	0.0000	0.0000
secondary_mushroom	0.9997	0.9993	0.9993
seeds	0.9553	0.9286	0.9317
segment	0.9656	0.9544	0.9547
segmentation	0.8405	0.6765	0.6810
segmentO	0.9916	0.9830	0.9831
seismic	0.5561	0.0719	0.0931
sens-2-gram	0.6856	0.1312	0.2650
sens-3-gram	0.5962	0.1788	0.1882
sens-4-gram	0.5571	0.1027	0.1114
sensorless	0.9981	0.9979	0.9979
shoppers	0.7981	0.5961	0.5961
sick	0.8698	0.7171	0.7371
sirtuin6	1.0000	1.0000	1.0000
smarket	0.9921	0.9840	0.9841
smk_can_187	0.6910	0.3736	0.3820
smoking	0.8032	0.5929	0.6064
soil_pollution	0.2066	0.0187	0.0189
solar-flare	0.7171	0.7139	0.7165
sonar	0.6094	0.2000	0.2182
soybean	1.0000	1.0000	1.0000
spam-detection	0.8671	0.7340	0.7341
spambase	0.9407	0.8809	0.8815
spect	0.4551	-0.0870	0.0000
spectf	0.8552	0.7021	0.7100
spectrometer	0.4645	0.5085	0.5178
squash-unstored	1.0000	1.0000	1.0000
startup	1.0000	1.0000	1.0000
steel_industry	0.8551	0.8125	0.8125
stellar	0.9665	0.9478	0.9479
Continued on next page			

Dataset	F1-macro	Kappa	MCC
stock	0.7976	0.5950	0.5951
stockb	1.0000	1.0000	1.0000
streaming	0.9231	0.8461	0.8462
stress	1.0000	1.0000	1.0000
student-depression	0.7911	0.5791	0.5822
student-habits	0.1881	0.0602	0.0655
student-lifestyle	0.3492	0.3913	0.3939
student-weekend	0.2868	0.1016	0.1108
student-workday	0.2784	0.1513	0.2826
studentap	0.5055	0.2909	0.2936
swarm_aligned	0.9957	0.9913	0.9913
swarm_flocking	0.9975	0.9950	0.9950
swarm_grouped	0.9965	0.9929	0.9929
tae	0.3964	0.1000	0.1021
telco-churn	0.8639	0.7263	0.7278
texture	0.9847	0.9820	0.9820
theorem	0.9376	0.8751	0.8753
thoracic	0.4471	-0.0709	0.0000
Thyroid_Diff	0.9365	0.8648	0.8728
tis	0.8130	0.5996	0.6240
titanic	0.7934	0.5163	0.5813
tourist	0.5250	0.6364	0.6848
trains	1.0000	1.0000	1.0000
transfusion	0.5665	0.1290	0.1325
tuandromd	0.9856	0.9711	0.9712
turkish	0.7854	0.7000	0.7101
tvnews	0.9081	0.8162	0.8162
ur3_cobotops_grip	0.7604	0.4282	0.4972
ur3_cobotops_stop	0.7046	0.3547	0.3929
urban	0.8392	0.7904	0.7937
ustilago10%	0.4995	0.0000	0.0000
vehicle	0.7170	0.6923	0.6930
vote	0.9307	0.8605	0.8615
vowel	0.7308	0.6667	0.6798
wap-wc	0.2694	0.2467	0.3643
warpar10p	0.7059	0.7400	0.7553
warppie10p	1.0000	1.0000	1.0000
waveform	0.8480	0.7661	0.7714
weather-related	0.9738	0.9673	0.9675
weight-lift	0.9974	0.9968	0.9968
white-clover	0.6604	0.1818	0.3162
wifi-loc	0.9902	0.9867	0.9868
wilt	0.8771	0.7540	0.7542
wine	1.0000	1.0000	1.0000
winequality-red	0.3354	0.4906	0.4974
winequality-white	0.4672	0.5266	0.5345
winnipeg10%	0.9909	0.9852	0.9853
wisc.bc	0.9643	0.9261	0.9286
yale	0.7652	0.7983	0.8051
yeast	0.4477	0.4506	0.4560
yeastCYT-POX	0.9047	0.7897	0.8078
yeastEXC	0.6001	0.1981	0.1995
yeastME1	0.8715	0.7431	0.7431
yeastME2	0.6386	0.2055	0.2496
zip	0.9202	0.9168	0.9169

Table 74: Detailed results for Crazy OVO 10

Dataset	F1-macro	Kappa	MCC
abalone	0.1481	0.0719	0.0731
abalone19	0.4982	0.0000	0.0000
accelerometer	0.7222	0.3097	0.4000
ads	0.9076	0.7972	0.8141
adult	0.7863	0.5415	0.5713
advanced-iot	1.0000	1.0000	1.0000
AID_1431	0.4772	0.0000	0.0000
AID_1431_KlekotaRothFingerprinter	0.4772	0.0000	0.0000
AID_1431_MACCSFingerprinter	0.4728	-0.0276	0.0000
AID_1878	0.5220	0.0256	0.0357
AID_602330	0.4866	-0.0169	0.0000
AID_652128	0.3118	0.0000	0.0000
AID1284red	0.4545	-0.0485	0.0000
AID1608Moredred	0.6340	0.1980	0.2416
AID1608red	0.4824	-0.0169	0.0000
AID362red	0.4917	-0.0163	0.0000
AID373AID439red	0.4997	-0.0003	0.0000
AID373red	0.4995	-0.0010	0.0000
AID456red	0.4990	-0.0015	0.0000
AID604	0.5527	0.0574	0.0801
AID604AID644_AllRed	0.4996	-0.0007	0.0000
AID687AID721red	0.4990	-0.0010	0.0000
AID687red	0.4986	-0.0027	0.0000
AID688red	0.4977	0.0000	0.0000
AID721moredred	0.4375	0.0000	0.0000
AID721red	0.4000	-0.1739	0.0000
AID746AID1284red	0.4992	-0.0014	0.0000
AID746red	0.5178	0.0323	0.0340
aids	0.8176	0.6343	0.6352
air_pollution	0.0826	0.0000	0.0000
alcohol	0.5712	0.6109	0.6549
all-aml	1.0000	1.0000	1.0000
anneal	0.9765	0.9538	0.9551
antivirus	1.0000	1.0000	1.0000
anuran-f-b	1.0000	1.0000	1.0000
anxiety	0.1102	0.0063	0.0065
apple-quality	0.7999	0.5950	0.5997
aps-failure	0.8101	0.5608	0.6085
arabidopsis1%	0.4980	0.0000	0.0000
arcene	0.7292	0.4231	0.4583
arrhythmia	0.4061	0.4423	0.5332
auction	0.9777	0.9544	0.9554
audiology	0.6115	0.7304	0.7360
audit-risk	0.9869	0.9734	0.9737
autism-adolescent	1.0000	1.0000	1.0000
autism-adult	1.0000	1.0000	1.0000
autism-child	1.0000	1.0000	1.0000
autos	0.8576	0.8020	0.8102
avila	0.9922	0.9969	0.9969
balance	0.6420	0.5324	0.5508
bank	0.7460	0.4889	0.4915
bankruptcy	1.0000	1.0000	1.0000
bio	0.8509	0.6544	0.6946
biodeg	0.8467	0.6897	0.6934
biomed	1.0000	1.0000	1.0000

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Dataset	F1-macro	Kappa	MCC
bitcoin10%	0.1871	0.0546	0.1251
body-perf	0.7254	0.6249	0.6304
brain-tumor	0.5108	0.0214	0.0216
breast-cancer	0.6242	0.2432	0.2477
breast-cancer-ma	0.3529	0.0000	0.0000
breast-tissue	0.7179	0.6733	0.6869
bridges	0.8000	0.7143	0.7143
bub12at310k-hg16-17	0.7003	0.3843	0.3967
cad	0.9629	0.9231	0.9258
cancer	1.0000	1.0000	1.0000
cancer-uae	0.3112	-0.0124	0.0000
car-insurance	0.8140	0.6264	0.6280
cardiotocography-nsp	0.8463	0.7629	0.7646
cardiovascular	0.7306	0.4574	0.4612
cargo2k	1.0000	1.0000	1.0000
cars	0.6260	0.5197	0.5255
ccds10%	0.5727	0.0469	0.0882
cdc_diabetes	0.4495	0.3142	0.3307
census	0.7433	0.4790	0.4942
cervical-B	0.7273	0.4173	0.4455
cervical-H	0.7378	0.4756	0.4756
cervical-S	0.8046	0.5212	0.5936
children-anemia	0.8624	0.8985	0.9000
chrom19	0.9214	0.8350	0.8421
chrom211%	0.4998	0.0000	0.0000
churn	0.7363	0.4725	0.4725
cjs	1.0000	1.0000	1.0000
ckd	1.0000	1.0000	1.0000
clave	0.6662	0.6326	0.6328
cll_sub_111	0.6667	0.3333	0.3371
cmc	0.5480	0.3311	0.3315
cnae-9	0.9299	0.9167	0.9173
codon_usage	0.6934	0.8328	0.8359
coil20	1.0000	1.0000	1.0000
college	0.9172	0.8338	0.8343
collins	1.0000	1.0000	1.0000
colon-tumor	1.0000	1.0000	1.0000
colposcopies-1	0.6245	0.2209	0.2450
colposcopies-2	0.6556	0.1104	0.2417
colposcopies-4	0.6667	0.3165	0.3310
colposcopies-5	0.4528	0.0000	0.0000
colposcopies-c	0.7526	0.3777	0.4825
column-2c	0.9342	0.8597	0.8683
column-3c	0.6845	0.6303	0.6338
connect-4	0.7466	0.6980	0.7014
coupon	0.7191	0.4381	0.4381
covtype	0.9119	0.9350	0.9476
covtypeCD	0.9735	0.9469	0.9470
covtypeT	0.9022	0.7937	0.8036
crabs	0.9141	0.8667	0.8785
creditcard_trans	0.7865	0.5707	0.5724
crowdsourced	0.7888	0.8483	0.8509
cryotherapy	0.5500	0.1000	0.1000
cultivars	0.4183	0.4516	0.4581
cybersecurity	0.1780	0.0065	0.0066
cyclopentane	0.7072	0.4098	0.4144
cylinder-bands	0.7952	0.5128	0.5872
datatrieve	0.4800	0.0000	0.0000

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Dataset	F1-macro	Kappa	MCC
dating	0.1128	0.0049	0.0052
dbworld	1.0000	1.0000	1.0000
default	0.7133	0.4230	0.4262
dementia	1.0000	1.0000	1.0000
deposit	0.7303	0.4478	0.4581
depressed	0.6278	0.1151	0.1954
dermatology	0.9429	0.9325	0.9325
desharnais	0.2778	0.1111	0.1375
df_final	0.8786	0.8072	0.8123
DIA	0.8179	0.5676	0.6295
diabetes-100k	0.8023	0.5136	0.5878
diagnosis	1.0000	1.0000	1.0000
diamonds	1.0000	1.0000	1.0000
diamonds_all	0.7351	0.6463	0.6496
dishonest	1.0000	1.0000	1.0000
dlbcl-nih	0.5391	0.0625	0.0756
dlbcl-stanford	0.8333	0.6154	0.6667
dna0.1%	0.4992	-0.0004	0.0000
dota2	0.5677	0.1353	0.1355
drebin	0.9658	0.9314	0.9316
dropout	0.6861	0.6005	0.6048
ecoli	0.7465	0.8359	0.8380
ecoliCP-IM	1.0000	1.0000	1.0000
ecoliM	0.9175	0.8350	0.8350
ecoliMU	0.6474	0.2281	0.2797
ecoliOM	0.7339	0.4677	0.4677
ecommerce	0.2002	-0.0576	0.0000
euthyroid	0.8960	0.7914	0.7919
fakenews	0.5213	0.0418	0.0427
fbis-wc	0.7266	0.7367	0.7394
finance	0.7621	0.5173	0.5242
financial-risk	0.4815	0.5712	0.6119
flags	0.4994	0.7419	0.7550
forest	0.9069	0.8937	0.8983
gas	0.9952	0.9948	0.9948
gastrointestinal	0.7976	0.6821	0.6975
gender	0.4837	0.1412	0.1501
german	0.6856	0.3510	0.3695
gestures	0.8639	0.8151	0.8175
gina	0.8919	0.7812	0.7838
gisette	0.9249	0.8486	0.8498
glass	0.7366	0.7316	0.7341
glass-g2	1.0000	1.0000	1.0000
glassBWFP	0.9032	0.7879	0.8062
glassBWNFP	0.9472	0.8889	0.8944
glassContainers	1.0000	1.0000	1.0000
glassNW	0.9340	0.8591	0.8677
glassTableware	1.0000	1.0000	1.0000
GlaucomaM	0.7978	0.5824	0.5955
gli_85	0.8730	0.7143	0.7454
glioma	0.8333	0.7059	0.7500
glioma-grade	0.8845	0.7610	0.7689
green	0.6098	0.2105	0.2182
gsalc	1.0000	1.0000	1.0000
haberman	0.4431	-0.1111	0.0000
hapt	0.8081	0.9242	0.9245
har	0.9912	0.9897	0.9897
harth10%	0.6037	0.8189	0.8091
Continued on next page			

Dataset	F1-macro	Kappa	MCC
health-activity	0.2175	0.0000	0.0000
heart	0.7666	0.5263	0.5330
heart-c	0.9009	0.8000	0.8018
heart-failure	0.9838	0.9671	0.9676
heart-quantum	0.9423	0.8780	0.8847
hepatitis	0.7266	0.4444	0.4523
higher	0.2420	0.1358	0.1533
hinselmann	0.4444	0.0000	0.0000
hitters	0.9373	0.8745	0.8745
hiv1-proteasa	0.7474	0.4036	0.4766
hiva	0.5545	0.0838	0.0973
horse	0.5827	0.2769	0.2983
hotel-reservartions	0.8854	0.7691	0.7707
hr	0.4633	0.0000	0.0000
ht-sensor	0.9981	0.9970	0.9971
htru2	0.9314	0.8578	0.8626
hypothyroid	0.7136	0.9025	0.9030
immuno-therapy	0.6786	0.3571	0.3571
ionosphere	0.9337	0.8674	0.8674
iris	0.9333	0.8993	0.9054
irish	1.0000	1.0000	1.0000
isolet	0.8786	0.8705	0.8708
jm1	0.6617	0.3204	0.3228
jvowels	0.9608	0.9591	0.9591
kc1-class-level-numericdefect	0.1636	0.0000	0.0000
kc1-class-level-top5percentDF	0.4828	0.0000	0.0000
kc2	0.7118	0.4235	0.4235
kdc-4007	0.4282	0.2069	0.2844
kddcup991%	0.8156	0.9979	0.9979
kidney	0.1778	0.0000	0.0000
kidney-disease	1.0000	1.0000	1.0000
la2s-wc	0.6259	0.4381	0.5262
labor	1.0000	1.0000	1.0000
leaf	0.5864	0.6291	0.6378
led24	0.7222	0.6610	0.6648
lenses	0.5714	0.5000	0.6124
letter	0.9479	0.9449	0.9449
linkage1%	0.9634	0.9266	0.9268
loan	0.9661	0.9311	0.9322
lrs	0.7255	0.8194	0.8252
lung_discrete	1.0000	1.0000	1.0000
lymphography	0.5520	0.6000	0.6181
lymphoma2	0.6027	0.6842	0.7120
machine-failure	0.9251	0.8483	0.8501
magic04	0.8450	0.6809	0.6897
malware	1.0000	1.0000	1.0000
mammography	0.8745	0.7490	0.7490
marketing	0.7427	0.4529	0.4795
mba	0.4578	0.3384	0.3613
mental-disorders	0.9270	0.8889	0.8972
messidor	0.6666	0.3271	0.3331
meter-A	0.8000	0.5294	0.6000
meter-B	1.0000	1.0000	1.0000
meter-C	1.0000	1.0000	1.0000
meter-D	1.0000	1.0000	1.0000
mfeat-fac	0.9608	0.9556	0.9558
mfeat-fou	0.7765	0.7500	0.7507
mfeat-kar	0.9479	0.9389	0.9394
Continued on next page			

Dataset	F1-macro	Kappa	MCC
mfeat-mor	0.7035	0.7000	0.7082
mfeat-pix	0.9709	0.9667	0.9669
mfeat-zer	0.7836	0.7556	0.7559
mice-prot	1.0000	1.0000	1.0000
milk	1.0000	1.0000	1.0000
mines	0.6358	0.5584	0.5609
mobile	0.9529	0.9502	0.9503
monks-1	1.0000	1.0000	1.0000
monks-3	0.9824	0.9642	0.9648
mushroom	1.0000	1.0000	1.0000
music	0.5276	0.3852	0.3870
MUT_ci300400a_cdk_ECFP2	0.7350	0.4311	0.4701
MUT_ci300400a_cdk_ECFP4	0.7183	0.3910	0.4365
MUT_ci300400a_cdk_ECFP6	0.7092	0.3777	0.4184
MUT_ci300400a_cdk_ESTATE	0.7540	0.5034	0.5081
MUT_ci300400a_cdk_EXTENDED	0.8090	0.6134	0.6179
MUT_ci300400a_cdk_FCFP2	0.7546	0.4981	0.5091
MUT_ci300400a_cdk_FCFP4	0.6940	0.3554	0.3879
MUT_ci300400a_cdk_FCFP6	0.7125	0.3996	0.4249
MUT_ci300400a_cdk_MACCS	0.8088	0.6172	0.6175
MUT_ci300400a_cdk_PUBCHEM	0.8343	0.6655	0.6687
MUT_ci300400a_cdk_STANDARD	0.7932	0.5822	0.5863
MUT_ci300400a_rdkit_descriptors	0.8063	0.6077	0.6126
myocardial	0.3102	0.3867	0.4911
naticusdroid	0.9623	0.9244	0.9246
nci9	0.6061	0.6000	0.6708
ncRNA10%	0.6706	0.8125	0.8186
neo	0.7503	0.4101	0.4874
new-thyroid	1.0000	1.0000	1.0000
new-thyroidT	1.0000	1.0000	1.0000
newspop	0.6643	0.3168	0.3285
NHANES_age_prediction	1.0000	1.0000	1.0000
nomao	0.9449	0.8897	0.8898
nursery	0.9255	0.9313	0.9330
obesity	0.9431	0.9336	0.9343
obs	1.0000	1.0000	1.0000
oh0-wc	0.7877	0.7468	0.7577
oh10-wc	0.6420	0.6469	0.6589
oh15-wc	0.7523	0.6993	0.7105
oh5-wc	0.8030	0.7126	0.7365
olive	0.9385	0.9343	0.9362
optdigits	0.9518	0.9446	0.9447
orlraws10P	1.0000	1.0000	1.0000
ozone1hr	0.4909	0.0000	0.0000
p53-mutants10%	0.4992	0.0000	0.0000
parkinson	0.9915	0.9828	0.9830
particle	0.9054	0.8104	0.8108
pc1	0.5693	0.1246	0.1330
pcmac	0.3681	0.0000	0.0000
pediatric-leukemia	0.5865	0.6678	0.6812
pendigits	0.9880	0.9868	0.9869
period-10f	0.5950	0.1818	0.1890
persistence	0.8042	0.6051	0.6083
personalities	0.9554	0.9524	0.9524
pet-adoption	0.8797	0.7501	0.7592
phishing	0.9399	0.8792	0.8797
PhiUSIL10%	0.9987	0.9974	0.9974
phy	0.7043	0.4085	0.4086
Continued on next page			

Dataset	F1-macro	Kappa	MCC
pima	0.7470	0.4802	0.4936
pirvision	0.9817	0.9706	0.9708
placement	0.7834	0.5668	0.5668
plrx	0.4000	-0.1020	0.0000
polya	0.7272	0.4430	0.4539
popularity	0.4273	0.2422	0.2704
post-operative	0.3571	-0.2000	0.0000
postures	0.9834	0.9795	0.9795
pred-tox_mutagen_ref-desc	0.7073	0.4118	0.4146
prestige	0.8889	0.8302	0.8462
primary-tumor	0.4036	0.4293	0.4439
processed	1.0000	1.0000	1.0000
profb	0.6327	0.2637	0.2652
promoters	0.9010	0.7826	0.8018
puc-rio	0.9862	0.9900	0.9900
pufs-1281%	0.5000	-0.0000	0.0000
pufs-6410%	0.4986	-0.0002	0.0000
pulsar	0.9458	0.8877	0.8914
raisin	0.8786	0.7556	0.7572
rejafada	1.0000	1.0000	1.0000
relathe	0.9929	0.9858	0.9859
rice	0.9862	0.9722	0.9723
rocket	0.7140	0.4162	0.4280
RT_IOT2022	0.9905	1.0000	0.9830
satimage	0.8795	0.8675	0.8679
scadi	0.5161	0.4474	0.4596
schiller	0.8333	0.6087	0.6614
sclerosis	1.0000	1.0000	1.0000
secom	0.4834	0.0000	0.0000
secondary_mushroom	0.9995	0.9990	0.9990
seeds	0.9553	0.9286	0.9317
segment	0.9611	0.9494	0.9494
segmentation	0.8152	0.6255	0.6304
segmentO	0.9916	0.9830	0.9831
seismic	0.5561	0.0719	0.0931
sens-2-gram	0.6772	0.0998	0.2292
sens-3-gram	0.6133	0.2022	0.2190
sens-4-gram	0.5899	0.1739	0.1780
sensorless	0.9974	0.9972	0.9972
shoppers	0.7995	0.5989	0.5990
sick	0.8698	0.7171	0.7371
sirtuin6	1.0000	1.0000	1.0000
smarket	0.9921	0.9840	0.9841
smk_can_187	0.6438	0.2732	0.2875
smoking	0.8021	0.5836	0.6040
soil_pollution	0.1881	-0.0173	0.0000
solar-flare	0.7347	0.7065	0.7168
sonar	0.6021	0.2000	0.2041
soybean	0.9883	0.9839	0.9841
spam-detection	0.8671	0.7340	0.7341
spambase	0.9385	0.8767	0.8769
spect	0.4551	-0.0870	0.0000
spectf	0.8552	0.7021	0.7100
spectrometer	0.4560	0.5306	0.5334
squash-unstored	1.0000	1.0000	1.0000
startup	1.0000	1.0000	1.0000
steel_industry	0.8478	0.8029	0.8030
stellar	0.9659	0.9469	0.9471
Continued on next page			

Dataset	F1-macro	Kappa	MCC
stock	0.7888	0.5776	0.5776
stockb	1.0000	1.0000	1.0000
streaming	0.9252	0.8504	0.8505
stress	1.0000	1.0000	1.0000
student-depression	0.7832	0.5628	0.5663
student-habits	0.2019	0.0231	0.0251
student-lifestyle	0.3419	0.3630	0.3652
student-weekend	0.2982	0.1105	0.1201
student-workday	0.2655	0.0777	0.1982
studentap	0.5055	0.2909	0.2936
swarm_aligned	0.9966	0.9932	0.9932
swarm_flocking	0.9979	0.9958	0.9958
swarm_grouped	0.9991	0.9982	0.9982
tae	0.4722	0.2000	0.2013
telco-churn	0.8596	0.7192	0.7192
texture	0.9798	0.9759	0.9760
theorem	0.9410	0.8819	0.8820
thoracic	0.4535	-0.0387	0.0000
Thyroid_Diff	0.9365	0.8648	0.8728
tis	0.8272	0.6427	0.6536
titanic	0.7934	0.5163	0.5813
tourist	0.5250	0.6364	0.6848
trains	1.0000	1.0000	1.0000
transfusion	0.5665	0.1290	0.1325
tuandromd	0.9859	0.9713	0.9717
turkish	0.7613	0.6667	0.6740
tvnews	0.9001	0.7993	0.8002
ur3_cobotops_grip	0.7237	0.3245	0.4087
ur3_cobotops_stop	0.7046	0.3547	0.3929
urban	0.8546	0.8079	0.8103
ustilago10%	0.4973	-0.0004	0.0000
vehicle	0.7183	0.6920	0.6929
vote	0.9307	0.8605	0.8615
vowel	0.6644	0.5889	0.5997
wap-wc	0.4618	0.6182	0.6433
warpar10p	0.7059	0.7400	0.7553
warppie10p	1.0000	1.0000	1.0000
waveform	0.8424	0.7601	0.7640
weather-related	0.9784	0.9717	0.9718
weight-lift	0.9972	0.9965	0.9965
white-clover	0.6604	0.1818	0.3162
wifi-loc	0.9902	0.9867	0.9868
wilt	0.9034	0.8065	0.8067
wine	1.0000	1.0000	1.0000
winequality-red	0.3255	0.4617	0.4679
winequality-white	0.4617	0.4961	0.5012
winnipeg10%	0.9917	0.9868	0.9868
wisc.bc	0.9643	0.9261	0.9286
yale	0.7771	0.7983	0.8086
yeast	0.4650	0.4318	0.4376
yeastCYT-POX	0.9047	0.7897	0.8078
yeastEXC	0.6001	0.1981	0.1995
yeastME1	0.8715	0.7431	0.7431
yeastME2	0.6386	0.2055	0.2496
zip	0.9204	0.9180	0.9181

Table 75: Detailed results for Crazier OVO 10

Dataset	F1-macro	Kappa	MCC
abalone	0.1193	0.0765	0.0777
abalone19	0.4982	0.0000	0.0000
accelerometer	0.7098	0.1877	0.3218
ads	0.9076	0.7972	0.8141
adult	0.7836	0.5359	0.5659
advanced-iot	1.0000	1.0000	1.0000
AID_1431	0.4772	0.0000	0.0000
AID_1431_KlekotaRothFingerprinter	0.4772	0.0000	0.0000
AID_1431_MACCSFingerprinter	0.4728	-0.0276	0.0000
AID_1878	0.4444	-0.0357	0.0000
AID_602330	0.4866	-0.0169	0.0000
AID_652128	0.3118	0.0000	0.0000
AID1284red	0.4545	-0.0485	0.0000
AID1608Morered	0.7193	0.2370	0.3667
AID1608red	0.4824	-0.0169	0.0000
AID362red	0.4929	-0.0142	0.0000
AID373AID439red	0.4997	-0.0003	0.0000
AID373red	0.4996	-0.0007	0.0000
AID456red	0.4990	-0.0015	0.0000
AID604	0.6545	0.0563	0.1591
AID604AID644_AllRed	0.4995	-0.0009	0.0000
AID687AID721red	0.4993	-0.0009	0.0000
AID687red	0.4989	-0.0020	0.0000
AID688red	0.4976	-0.0007	0.0000
AID721morered	0.4375	0.0000	0.0000
AID721red	0.4000	-0.1739	0.0000
AID746AID1284red	0.4995	-0.0011	0.0000
AID746red	0.5274	0.0398	0.0471
aids	0.8176	0.6343	0.6352
air_pollution	0.0826	0.0000	0.0000
alcohol	0.5712	0.6109	0.6549
all-aml	0.8182	0.5714	0.6325
anneal	0.9872	0.9766	0.9769
antivirus	1.0000	1.0000	1.0000
anuran-f-b	1.0000	1.0000	1.0000
anxiety	0.0871	-0.0222	0.0000
apple-quality	0.8015	0.6000	0.6030
aps-failure	0.7289	0.4512	0.4561
arabidopsis1%	0.4980	0.0000	0.0000
arcene	0.7292	0.4231	0.4583
arrhythmia	0.4061	0.4423	0.5332
auction	0.9777	0.9544	0.9554
audiology	0.6115	0.7304	0.7360
audit-risk	0.9869	0.9734	0.9737
autism-adolescent	1.0000	1.0000	1.0000
autism-adult	1.0000	1.0000	1.0000
autism-child	1.0000	1.0000	1.0000
autos	0.9106	0.8693	0.8750
avila	0.9924	0.9975	0.9975
balance	0.6284	0.4996	0.5136
bank	0.7512	0.5008	0.5022
bankruptcy	1.0000	1.0000	1.0000
bio	0.8586	0.6748	0.7110
biodeg	0.8675	0.7337	0.7350
biomed	1.0000	1.0000	1.0000
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Dataset	F1-macro	Kappa	MCC
bitcoin10%	0.2416	0.1341	0.1989
body-perf	0.7207	0.6219	0.6260
brain-tumor	0.5036	0.0071	0.0071
breast-cancer	0.5913	0.1818	0.1826
breast-cancer-ma	0.6333	0.2667	0.2667
breast-tissue	0.7179	0.6733	0.6869
bridges	0.8000	0.7143	0.7143
bub12at310k-hg16-17	0.6946	0.3606	0.3818
cad	0.9629	0.9231	0.9258
cancer	1.0000	1.0000	1.0000
cancer-uae	0.3189	0.0057	0.0060
car-insurance	0.8112	0.6206	0.6224
cardiotocography-nsp	0.8434	0.7706	0.7732
cardiovascular	0.7321	0.4600	0.4642
cargo2k	1.0000	1.0000	1.0000
cars	0.6260	0.5197	0.5255
ccds10%	0.5727	0.0469	0.0882
cdc_diabetes	0.4463	0.3206	0.3315
census	0.7419	0.4953	0.4940
cervical-B	0.7273	0.4173	0.4455
cervical-H	0.7090	0.4142	0.4170
cervical-S	0.8046	0.5212	0.5936
children-anemia	0.8551	0.8962	0.8978
chrom19	0.9256	0.8473	0.8509
chrom211%	0.4998	0.0000	0.0000
churn	0.7606	0.5193	0.5210
cjs	1.0000	1.0000	1.0000
ckd	1.0000	1.0000	1.0000
clave	0.6804	0.6477	0.6481
cll_sub_111	0.6369	0.3023	0.3061
cmc	0.5578	0.3390	0.3395
cnae-9	0.9222	0.9062	0.9071
codon_usage	0.7039	0.8425	0.8447
coil20	1.0000	1.0000	1.0000
college	0.9345	0.8690	0.8690
collins	1.0000	1.0000	1.0000
colon-tumor	0.8182	0.5714	0.6325
colposcopies-1	0.6245	0.2209	0.2450
colposcopies-2	0.6556	0.1104	0.2417
colposcopies-4	0.7150	0.3873	0.4243
colposcopies-5	0.4528	0.0000	0.0000
colposcopies-c	0.7526	0.3777	0.4825
column-2c	0.9342	0.8597	0.8683
column-3c	0.6845	0.6303	0.6338
connect-4	0.7546	0.7261	0.7262
coupon	0.7149	0.4297	0.4297
covtype	0.9372	0.9197	0.9327
covtypeCD	0.9755	0.9507	0.9510
covtypeT	0.9377	0.8736	0.8753
crabs	0.9141	0.8667	0.8785
creditcard_trans	0.7345	0.4605	0.4667
crowdsourced	0.7917	0.8531	0.8551
cryotherapy	0.5500	0.1000	0.1000
cultivars	0.4921	0.5161	0.5214
cybersecurity	0.1822	0.0150	0.0151
cyclopentane	0.7750	0.5500	0.5500
cylinder-bands	0.7629	0.4247	0.5192
datatrieve	0.4800	0.0000	0.0000
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Dataset	F1-macro	Kappa	MCC
dating	0.1001	0.0008	0.0008
dbworld	1.0000	1.0000	1.0000
default	0.7163	0.4286	0.4321
dementia	1.0000	1.0000	1.0000
deposit	0.7516	0.5002	0.5027
depressed	0.6278	0.1151	0.1954
dermatology	0.9429	0.9325	0.9325
desharnais	0.5455	0.5556	0.6063
df_final	0.8786	0.8072	0.8123
DIA	0.8179	0.5676	0.6295
diabetes-100k	0.8399	0.6279	0.6727
diagnosis	1.0000	1.0000	1.0000
diamonds	1.0000	1.0000	1.0000
diamonds_all	0.7423	0.6526	0.6549
dishonest	1.0000	1.0000	1.0000
dlbcl-nih	0.5391	0.0625	0.0756
dlbcl-stanford	0.8333	0.6154	0.6667
dna0.1%	0.4993	0.0000	0.0000
dota2	0.5668	0.1180	0.1327
drebin	0.9680	0.9356	0.9361
dropout	0.6906	0.6025	0.6084
ecoli	0.7465	0.8359	0.8380
ecoliCP-IM	1.0000	1.0000	1.0000
ecoliM	0.9175	0.8350	0.8350
ecoliMU	0.6474	0.2281	0.2797
ecoliOM	0.7339	0.4677	0.4677
ecommerce	0.2194	-0.0411	0.0000
euthyroid	0.9267	0.8527	0.8533
fakenews	0.5125	0.0250	0.0251
fbis-wc	0.7311	0.7411	0.7434
finance	0.7426	0.4751	0.4850
financial-risk	0.4761	0.5643	0.6036
flags	0.4994	0.7419	0.7550
forest	0.9069	0.8937	0.8983
gas	0.9951	0.9948	0.9948
gastrointestinal	0.5994	0.6712	0.7117
gender	0.4804	0.1362	0.1437
german	0.6980	0.3612	0.3928
gestures	0.8771	0.8356	0.8362
gina	0.8878	0.7753	0.7756
gisette	0.9216	0.8429	0.8433
glass	0.7366	0.7316	0.7341
glass-g2	1.0000	1.0000	1.0000
glassBWFP	0.8568	0.6736	0.7126
glassBWNFP	0.8955	0.7692	0.7906
glassContainers	0.8483	0.6452	0.6901
glassNW	0.9340	0.8591	0.8677
glassTableware	0.4884	0.0000	0.0000
GlaucomaM	0.7978	0.5824	0.5955
gli_85	0.8730	0.7143	0.7454
glioma	0.8333	0.7059	0.7500
glioma-grade	0.8845	0.7610	0.7689
green	0.6098	0.2105	0.2182
gsalc	1.0000	1.0000	1.0000
haberman	0.4431	-0.1111	0.0000
hapt	0.7874	0.9210	0.9212
har	0.9906	0.9890	0.9891
harth10%	0.6039	0.8086	0.8252
Continued on next page			

Dataset	F1-macro	Kappa	MCC
health-activity	0.2175	0.0000	0.0000
heart	0.7666	0.5263	0.5330
heart-c	0.9009	0.8000	0.8018
heart-failure	0.9861	0.9719	0.9722
heart-quantum	0.9423	0.8780	0.8847
hepatitis	0.7917	0.5833	0.5833
higher	0.2644	0.2075	0.2488
hinselmann	0.4444	0.0000	0.0000
hitters	0.9373	0.8745	0.8745
hiv1-proteasa	0.7390	0.3809	0.4575
hiva	0.5663	0.0917	0.1133
horse	0.3997	0.2197	0.2390
hotel-reservartions	0.8856	0.7708	0.7713
hr	0.4633	0.0000	0.0000
ht-sensor	0.9981	0.9972	0.9972
htru2	0.9351	0.8659	0.8701
hypothyroid	0.7192	0.9176	0.9187
immuno-therapy	0.6786	0.3571	0.3571
ionosphere	0.9337	0.8674	0.8674
iris	1.0000	1.0000	1.0000
irish	1.0000	1.0000	1.0000
isolet	0.8818	0.8745	0.8748
jm1	0.6479	0.2893	0.2945
javowels	0.9600	0.9579	0.9580
kc1-class-level-numericdefect	0.1636	0.0000	0.0000
kc1-class-level-top5percentDF	0.4828	0.0000	0.0000
kc2	0.6935	0.3863	0.3869
kdc-4007	0.3765	0.1310	0.2666
kddcup991%	0.8156	0.9979	0.9979
kidney	0.1778	0.0000	0.0000
kidney-disease	1.0000	1.0000	1.0000
la2s-wc	0.5757	0.3884	0.4845
labor	1.0000	1.0000	1.0000
leaf	0.6259	0.6603	0.6688
led24	0.7222	0.6610	0.6648
lenses	0.5714	0.5000	0.6124
letter	0.9503	0.9475	0.9475
linkage1%	0.9634	0.9266	0.9268
loan	0.9687	0.9361	0.9374
lrs	0.6315	0.7920	0.8002
lung_discrete	0.7652	0.8367	0.8549
lymphography	0.5520	0.6000	0.6181
lymphoma2	0.4194	0.5000	0.5511
machine-failure	0.9251	0.8483	0.8501
magic04	0.8520	0.6982	0.7039
malware	1.0000	1.0000	1.0000
mammography	0.8745	0.7490	0.7490
marketing	0.7401	0.4355	0.4716
mba	0.4378	0.2962	0.2993
mental-disorders	0.9270	0.8889	0.8972
messidor	0.6816	0.3587	0.3631
meter-A	0.8000	0.5294	0.6000
meter-B	1.0000	1.0000	1.0000
meter-C	1.0000	1.0000	1.0000
meter-D	1.0000	1.0000	1.0000
mfeat-fac	0.9660	0.9611	0.9614
mfeat-fou	0.7957	0.7722	0.7730
mfeat-kar	0.9491	0.9389	0.9396
Continued on next page			

Dataset	F1-macro	Kappa	MCC
mfeat-mor	0.7031	0.7000	0.7082
mfeat-pix	0.9757	0.9722	0.9724
mfeat-zer	0.7943	0.7667	0.7669
mice-prot	1.0000	1.0000	1.0000
milk	1.0000	1.0000	1.0000
mines	0.6029	0.5216	0.5233
mobile	0.9533	0.9502	0.9503
monks-1	1.0000	1.0000	1.0000
monks-3	0.9824	0.9642	0.9648
mushroom	1.0000	1.0000	1.0000
music	0.5308	0.3905	0.3922
MUT_ci300400a_cdk_ECFP2	0.7262	0.4209	0.4523
MUT_ci300400a_cdk_ECFP4	0.7222	0.3885	0.4442
MUT_ci300400a_cdk_ECFP6	0.7171	0.3855	0.4341
MUT_ci300400a_cdk_ESTATE	0.7559	0.5096	0.5117
MUT_ci300400a_cdk_EXTENDED	0.7995	0.5966	0.5989
MUT_ci300400a_cdk_FCFP2	0.7449	0.4870	0.4898
MUT_ci300400a_cdk_FCFP4	0.6859	0.3344	0.3717
MUT_ci300400a_cdk_FCFP6	0.7230	0.4158	0.4460
MUT_ci300400a_cdk_MACCS	0.8088	0.6177	0.6177
MUT_ci300400a_cdk_PUBCHEM	0.8445	0.6877	0.6889
MUT_ci300400a_cdk_STANDARD	0.7831	0.5646	0.5662
MUT_ci300400a_rdkit_descriptors	0.8116	0.6228	0.6232
myocardial	0.3102	0.3867	0.4911
naticusdroid	0.9600	0.9196	0.9201
nci9	0.6061	0.6000	0.6708
ncRNA10%	0.6807	0.8208	0.8249
neo	0.7519	0.4103	0.4904
new-thyroid	1.0000	1.0000	1.0000
new-thyroidT	1.0000	1.0000	1.0000
newspop	0.6664	0.3327	0.3327
NHANES_age_prediction	0.9841	0.9677	0.9682
nomao	0.9468	0.8935	0.8936
nursery	0.9576	0.9514	0.9522
obesity	0.9431	0.9336	0.9343
obs	1.0000	1.0000	1.0000
oh0-wc	0.7832	0.7466	0.7576
oh10-wc	0.6357	0.6255	0.6363
oh15-wc	0.7563	0.6998	0.7094
oh5-wc	0.8074	0.7001	0.7281
olive	0.9385	0.9343	0.9362
optdigits	0.9517	0.9446	0.9447
orlraws10P	1.0000	1.0000	1.0000
ozone1hr	0.4909	0.0000	0.0000
p53-mutants10%	0.4992	0.0000	0.0000
parkinson	0.9915	0.9828	0.9830
particle	0.9066	0.8131	0.8132
pc1	0.6396	0.2671	0.2754
pcmac	0.3660	-0.0103	0.0000
pediatric-leukemia	0.5802	0.6652	0.6906
pendigits	0.9872	0.9858	0.9859
period-10f	0.5950	0.1818	0.1890
persistence	0.7942	0.5840	0.5884
personalities	0.9556	0.9525	0.9525
pet-adoption	0.8869	0.7590	0.7735
phishing	0.9442	0.8880	0.8883
PhiUSIL10%	0.9987	0.9974	0.9974
phy	0.7064	0.4128	0.4129
Continued on next page			

Dataset	F1-macro	Kappa	MCC
pima	0.7176	0.4154	0.4344
pirvision	0.9864	0.9793	0.9793
placement	0.7838	0.5676	0.5677
plrx	0.4000	-0.1020	0.0000
polya	0.7131	0.3984	0.4242
popularity	0.4271	0.2267	0.2658
post-operative	0.3571	-0.2000	0.0000
postures	0.9839	0.9801	0.9802
pred-tox_mutagen_ref-desc	0.7666	0.5294	0.5331
prestige	0.8889	0.8302	0.8462
primary-tumor	0.3493	0.3920	0.4033
processed	1.0000	1.0000	1.0000
profb	0.5946	0.1793	0.1878
promoters	0.9083	0.8000	0.8165
puc-rio	0.9881	0.9912	0.9913
pufs-1281%	0.5021	0.0035	0.0041
pufs-6410%	0.4959	-0.0070	0.0000
pulsar	0.9485	0.8950	0.8969
raisin	0.9001	0.8000	0.8002
rejafada	1.0000	1.0000	1.0000
relathe	0.9929	0.9858	0.9859
rice	0.9867	0.9733	0.9734
rocket	0.7137	0.4260	0.4274
RT_IOT2022	0.9896	0.9824	0.9821
satimage	0.8767	0.8655	0.8659
scadi	0.6600	0.6316	0.6667
schiller	0.8333	0.6087	0.6614
sclerosis	1.0000	1.0000	1.0000
secom	0.4834	0.0000	0.0000
secondary_mushroom	0.9997	0.9993	0.9993
seeds	0.9553	0.9286	0.9317
segment	0.9618	0.9494	0.9496
segmentation	0.8405	0.6765	0.6810
segmentO	0.9916	0.9830	0.9831
seismic	0.6058	0.1566	0.1893
sens-2-gram	0.6772	0.0998	0.2292
sens-3-gram	0.6142	0.2175	0.2253
sens-4-gram	0.5598	0.1083	0.1169
sensorless	0.9980	0.9977	0.9977
shoppers	0.8035	0.6069	0.6070
sick	0.8698	0.7171	0.7371
sirtuin6	1.0000	1.0000	1.0000
smarket	0.9921	0.9840	0.9841
smk_can_187	0.7091	0.3804	0.4177
smoking	0.8055	0.5978	0.6109
soil_pollution	0.1958	-0.0047	0.0000
solar-flare	0.7151	0.7067	0.7170
sonar	0.6094	0.2000	0.2182
soybean	0.9883	0.9839	0.9841
spam-detection	0.8671	0.7340	0.7341
spambase	0.9407	0.8809	0.8815
spect	0.4551	-0.0870	0.0000
spectf	0.8205	0.6392	0.6408
spectrometer	0.4302	0.4894	0.4933
squash-unstored	1.0000	1.0000	1.0000
startup	1.0000	1.0000	1.0000
steel_industry	0.8577	0.8153	0.8154
stellar	0.9673	0.9490	0.9491
Continued on next page			

Dataset	F1-macro	Kappa	MCC
stock	0.7976	0.5950	0.5951
stockb	1.0000	1.0000	1.0000
streaming	0.9231	0.8461	0.8462
stress	1.0000	1.0000	1.0000
student-depression	0.7911	0.5792	0.5822
student-habits	0.2368	0.0394	0.0415
student-lifestyle	0.3468	0.3782	0.3803
student-weekend	0.2561	0.1180	0.1248
student-workday	0.2784	0.1513	0.2826
studentap	0.5111	0.2909	0.2909
swarm_aligned	0.9971	0.9942	0.9942
swarm_flocking	0.9975	0.9950	0.9950
swarm_grouped	0.9973	0.9947	0.9947
tae	0.4802	0.2000	0.2013
telco-churn	0.8680	0.7347	0.7359
texture	0.9814	0.9779	0.9780
theorem	0.9461	0.8921	0.8922
thoracic	0.4535	-0.0387	0.0000
Thyroid_Diff	0.9048	0.7912	0.8090
tis	0.8098	0.5884	0.6169
titanic	0.7934	0.5163	0.5813
tourist	0.5250	0.6364	0.6848
trains	1.0000	1.0000	1.0000
transfusion	0.5665	0.1290	0.1325
tuandromd	0.9856	0.9711	0.9712
turkish	0.8510	0.8000	0.8027
tvnews	0.9060	0.8119	0.8120
ur3_cobotops_grip	0.7237	0.3245	0.4087
ur3_cobotops_stop	0.6856	0.3106	0.3517
urban	0.8546	0.8079	0.8103
ustilago10%	0.4973	-0.0004	0.0000
vehicle	0.7332	0.6944	0.6978
vote	0.9307	0.8605	0.8615
vowel	0.6675	0.5889	0.6009
wap-wc	0.4683	0.6329	0.6554
warpar10p	0.7059	0.7400	0.7553
warppie10p	1.0000	1.0000	1.0000
waveform	0.8446	0.7631	0.7669
weather-related	0.9803	0.9739	0.9740
weight-lift	0.9977	0.9971	0.9971
white-clover	0.6604	0.1818	0.3162
wifi-loc	0.9902	0.9867	0.9868
wilt	0.8904	0.7808	0.7808
wine	1.0000	1.0000	1.0000
winequality-red	0.3280	0.4719	0.4782
winequality-white	0.4515	0.4942	0.5001
winnipeg10%	0.9914	0.9864	0.9864
wisc.bc	0.9643	0.9261	0.9286
yale	0.7771	0.7983	0.8086
yeast	0.4817	0.4420	0.4470
yeastCYT-POX	0.9047	0.7897	0.8078
yeastEXC	0.6001	0.1981	0.1995
yeastME1	0.8715	0.7431	0.7431
yeastME2	0.6386	0.2055	0.2496
zip	0.9190	0.9168	0.9169

3.3 Noise results at 20% ratio

Table 76: Detailed results for C5.0 20

Dataset	F1-macro	Kappa	MCC
abalone	0.0926	0.0693	0.0697
abalone19	0.4982	0.0000	0.0000
accelerometer	0.4955	0.0000	0.0000
ads	0.8785	0.7337	0.7551
adult	0.7902	0.5663	0.5791
advanced-iot	1.0000	1.0000	1.0000
AID_1431	0.4772	0.0000	0.0000
AID_1431_KlekotaRothFingerprinter	0.4772	0.0000	0.0000
AID_1431_MACCSFingerprinter	0.4772	0.0000	0.0000
AID_1878	0.4324	-0.0951	0.0000
AID_602330	0.4894	0.0000	0.0000
AID_652128	0.2938	-0.0896	0.0000
AID1284red	0.7065	0.4033	0.4115
AID1608Morered	0.5211	0.0410	0.0417
AID1608red	0.4850	0.0000	0.0000
AID362red	0.4965	0.0000	0.0000
AID373AID439red	0.5000	0.0000	0.0000
AID373red	0.4997	0.0000	0.0000
AID456red	0.4992	0.0000	0.0000
AID604	0.4991	0.0000	0.0000
AID604AID644_AllRed	0.4997	0.0000	0.0000
AID687AID721red	0.4998	0.0000	0.0000
AID687red	0.4992	0.0000	0.0000
AID688red	0.4977	0.0000	0.0000
AID721morered	0.4375	0.0000	0.0000
AID721red	0.3571	-0.2857	0.0000
AID746AID1284red	0.4997	0.0000	0.0000
AID746red	0.4985	0.0000	0.0000
aids	0.8324	0.6371	0.6628
air_pollution	0.1435	0.0223	0.0241
alcohol	0.3914	0.4283	0.4286
all-aml	0.8182	0.5714	0.6325
anneal	0.7442	0.8843	0.8862
antivirus	0.9119	0.8238	0.8238
anuran-f-b	0.4979	0.0000	0.0000
anxiety	0.1060	-0.0126	0.0000
apple-quality	0.7477	0.4950	0.4953
aps-failure	0.8266	0.6531	0.6532
arabidopsis1%	0.4980	0.0000	0.0000
arcene	0.6284	0.2553	0.2568
arrhythmia	0.6977	0.6868	0.6911
auction	0.8828	0.7363	0.7633
audiology	0.7762	0.8490	0.8528
audit-risk	1.0000	1.0000	1.0000
autism-adolescent	1.0000	1.0000	1.0000
autism-adult	1.0000	1.0000	1.0000
autism-child	1.0000	1.0000	1.0000
autos	0.6055	0.4558	0.5008
avila	0.8973	0.9907	0.9907
balance	0.5228	0.5459	0.5510
bank	0.7778	0.5557	0.5557
bankruptcy	0.9593	0.9153	0.9186
bio	0.8734	0.7219	0.7436
biodeg	0.8780	0.7553	0.7560
biomed	0.9529	0.9014	0.9058
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Dataset	F1-macro	Kappa	MCC
bitcoin10%	0.0827	0.0000	0.0000
body-perf	0.7204	0.6269	0.6305
brain-tumor	0.5170	0.0294	0.0336
breast-cancer	0.7126	0.3824	0.4196
breast-cancer-ma	0.3529	0.0000	0.0000
breast-tissue	0.7179	0.6733	0.6869
bridges	0.6525	0.6970	0.7098
bub12at310k-hg16-17	0.6912	0.3772	0.3811
cad	0.9206	0.8413	0.8413
cancer	0.9844	0.9684	0.9688
cancer-uae	0.2937	-0.0425	0.0000
car-insurance	0.8141	0.6280	0.6281
cardiotocography-nsp	0.8569	0.8001	0.8029
cardiovascular	0.7371	0.4724	0.4741
cargo2k	1.0000	1.0000	1.0000
cars	0.7916	0.7315	0.7417
ccds10%	0.4902	0.0000	0.0000
cdc_diabetes	0.4130	0.1313	0.1975
census	0.7530	0.4559	0.4945
cervical-B	0.8563	0.7088	0.7122
cervical-H	0.8728	0.7101	0.7420
cervical-S	0.8495	0.6895	0.6980
children-anemia	0.9342	0.9116	0.9126
chrom19	0.8685	0.7289	0.7359
chrom211%	0.4998	0.0000	0.0000
churn	0.7084	0.3828	0.4108
cjs	1.0000	1.0000	1.0000
ckd	1.0000	1.0000	1.0000
clave	0.6705	0.7086	0.7127
cll_sub_111	0.3639	-0.0667	0.0000
cmc	0.5614	0.3564	0.3580
cnae-9	0.9207	0.9062	0.9073
codon_usage	0.7510	0.8853	0.8855
coil20	0.9542	0.9488	0.9492
college	0.8107	0.6109	0.6207
collins	0.6954	0.8896	0.8924
colon-tumor	0.7500	0.4000	0.5000
colposcopies-1	0.6487	0.2965	0.2974
colposcopies-2	0.7264	0.3176	0.4345
colposcopies-4	0.6025	0.1831	0.2006
colposcopies-5	0.6238	0.2077	0.2360
colposcopies-c	0.5383	0.0645	0.0730
column-2c	0.8342	0.6173	0.6682
column-3c	0.7844	0.6771	0.6942
connect-4	0.7083	0.5532	0.5911
coupon	0.6851	0.3597	0.3698
covtype	0.0769	0.0000	0.0000
covtypeCD	0.9485	0.8964	0.8969
covtypeT	0.8680	0.7292	0.7353
crabs	0.8521	0.8000	0.8027
creditcard_trans	0.4996	0.0000	0.0000
crowdsourced	0.8050	0.8548	0.8552
cryotherapy	0.7404	0.3721	0.4781
cultivars	0.3062	0.3226	0.3269
cybersecurity	0.1732	0.0069	0.0069
cyclopentane	0.5763	0.1239	0.1492
cylinder-bands	0.6666	0.3151	0.3331
datatrieve	0.3500	-0.1471	0.0000
Continued on next page			

Dataset	F1-macro	Kappa	MCC
dating	0.1058	0.0062	0.0062
dbworld	1.0000	1.0000	1.0000
default	0.7128	0.3858	0.4190
dementia	0.9803	0.9599	0.9606
deposit	0.7271	0.4503	0.4535
depressed	0.4542	0.0000	0.0000
dermatology	0.8062	0.7958	0.7980
desharnais	0.6525	0.4286	0.4763
df_final	0.6056	0.4217	0.4410
DIA	0.5818	0.1628	0.1635
diabetes-100k	0.8930	0.7612	0.7839
diagnosis	1.0000	1.0000	1.0000
diamonds	1.0000	1.0000	1.0000
diamonds_all	0.7779	0.6847	0.6887
dishonest	1.0000	1.0000	1.0000
dlbcl-nih	0.4000	-0.2000	0.0000
dlbcl-stanford	0.2857	0.0000	0.0000
dna0.1%	0.4993	0.0000	0.0000
dota2	0.5766	0.1520	0.1532
drebin	0.9615	0.9229	0.9229
dropout	0.6467	0.5734	0.5940
ecoli	0.7465	0.8359	0.8380
ecoliCP-IM	1.0000	1.0000	1.0000
ecoliM	0.8253	0.6341	0.6500
ecoliMU	0.4762	0.0000	0.0000
ecoliOM	0.7339	0.4677	0.4677
ecommerce	0.2332	-0.0260	0.0000
euthyroid	0.9106	0.8212	0.8212
fakenews	0.3355	0.0000	0.0000
fbis-wc	0.7705	0.7690	0.7720
finance	0.3108	0.0000	0.0000
financial-risk	0.7257	0.8430	0.8434
flags	0.5042	0.5666	0.5810
forest	0.7918	0.7629	0.7633
gas	0.9817	0.9782	0.9782
gastrointestinal	0.7980	0.6690	0.7104
gender	0.4663	0.1787	0.1919
german	0.6352	0.2677	0.2703
gestures	0.9112	0.8813	0.8819
gina	0.8820	0.7634	0.7640
gisette	0.9415	0.8829	0.8830
glass	0.7405	0.4970	0.5172
glass-g2	0.8118	0.5556	0.6202
glassBWFP	0.9529	0.9014	0.9058
glassBWNFP	0.7042	0.4000	0.4082
glassContainers	0.4762	0.0000	0.0000
glassNW	0.6494	0.2953	0.2983
glassTableware	0.4884	0.0000	0.0000
GlaucomaM	0.7389	0.4751	0.4778
gli_85	0.2000	0.0000	0.0000
glioma	0.8416	0.7127	0.7565
glioma-grade	0.8845	0.7610	0.7689
green	0.5238	0.0476	0.0476
gsalc	0.5219	0.4783	0.5159
haberman	0.6011	0.2012	0.2020
hapt	0.7873	0.9308	0.9309
har	0.9823	0.9787	0.9787
harth10%	0.0095	0.0000	0.0000
Continued on next page			

Dataset	F1-macro	Kappa	MCC
health-activity	0.2313	-0.0074	0.0000
heart	0.7284	0.4553	0.4567
heart-c	0.8001	0.5946	0.6001
heart-failure	0.9557	0.9113	0.9114
heart-quantum	0.8768	0.7244	0.7536
hepatitis	0.7266	0.4444	0.4523
higher	0.2902	0.1765	0.1864
hinselmann	0.4444	0.0000	0.0000
hitters	0.9373	0.8745	0.8745
hiv1-proteasa	0.7801	0.5370	0.5571
hiva	0.4910	0.0000	0.0000
horse	0.4143	0.0554	0.0627
hotel-reservartions	0.8608	0.7192	0.7215
hr	0.4633	0.0000	0.0000
ht-sensor	0.9978	0.9966	0.9966
htru2	0.9301	0.8580	0.8601
hypothyroid	0.6924	0.8938	0.8948
immuno-therapy	0.6786	0.3571	0.3571
ionosphere	0.7235	0.4422	0.4466
iris	0.9333	0.8993	0.9054
irish	0.9800	0.9592	0.9600
isolet	0.8718	0.8625	0.8629
jm1	0.6190	0.0412	0.1211
jvowels	0.9548	0.9511	0.9512
kc1-class-level-numericdefect	0.1636	0.0000	0.0000
kc1-class-level-top5percentDF	0.8438	0.6341	0.6814
kc2	0.6298	0.2394	0.2551
kdc-4007	0.0345	0.0000	0.0000
kddcup991%	0.7100	0.9935	0.9935
kidney	0.1778	0.0000	0.0000
kidney-disease	0.9743	0.9474	0.9487
la2s-wc	0.8524	0.8336	0.8364
labor	0.8537	0.6667	0.7071
leaf	0.7388	0.6917	0.6962
led24	0.4768	0.4886	0.4943
lenses	0.1667	0.0000	0.0000
letter	0.8976	0.8923	0.8924
linkage1%	0.8671	0.7157	0.7318
loan	0.9777	0.9553	0.9554
lrs	0.5725	0.6636	0.6677
lung_discrete	1.0000	1.0000	1.0000
lymphography	0.4872	0.3913	0.4245
lymphoma2	0.6222	0.7000	0.7120
machine-failure	0.8800	0.7599	0.7601
magic04	0.8367	0.6708	0.6734
malware	0.9119	0.8238	0.8238
mammography	0.8434	0.6867	0.6868
marketing	0.6878	0.3535	0.3708
mba	0.3041	0.0000	0.0000
mental-disorders	0.8537	0.7778	0.7926
messidor	0.6120	0.2194	0.2239
meter-A	0.4667	-0.0667	0.0000
meter-B	0.4579	0.1509	0.1538
meter-C	0.8537	0.7750	0.7949
meter-D	0.6869	0.7662	0.7697
mfeat-fac	0.9417	0.9333	0.9338
mfeat-fou	0.7874	0.7667	0.7672
mfeat-kar	0.9061	0.8944	0.8948
Continued on next page			

Dataset	F1-macro	Kappa	MCC
mfeat-mor	0.6856	0.6556	0.6568
mfeat-pix	0.9365	0.9278	0.9282
mfeat-zer	0.7499	0.7278	0.7294
mice-prot	1.0000	1.0000	1.0000
milk	1.0000	1.0000	1.0000
mines	0.6208	0.5222	0.5273
mobile	0.8382	0.8255	0.8261
monks-1	0.9272	0.8545	0.8545
monks-3	0.9642	0.9285	0.9285
mushroom	0.9939	0.9877	0.9878
music	0.4736	0.3372	0.3377
MUT_ci300400a_cdk_ECFP2	0.7335	0.4666	0.4670
MUT_ci300400a_cdk_ECFP4	0.7423	0.4845	0.4845
MUT_ci300400a_cdk_ECFP6	0.6990	0.3977	0.3981
MUT_ci300400a_cdk_ESTATE	0.7230	0.4459	0.4459
MUT_ci300400a_cdk_EXTENDED	0.7523	0.5031	0.5046
MUT_ci300400a_cdk_FCFP2	0.7184	0.4364	0.4369
MUT_ci300400a_cdk_FCFP4	0.7123	0.4226	0.4246
MUT_ci300400a_cdk_FCFP6	0.7503	0.4875	0.5007
MUT_ci300400a_cdk_MACCS	0.7258	0.4449	0.4514
MUT_ci300400a_cdk_PUBCHEM	0.7432	0.4820	0.4863
MUT_ci300400a_cdk_STANDARD	0.7216	0.4403	0.4432
MUT_ci300400a_rdkit_descriptors	0.7651	0.5302	0.5303
myocardial	0.3102	0.3867	0.4911
naticusdroid	0.9584	0.9168	0.9169
nci9	0.6061	0.6000	0.6708
ncRNA10%	0.6289	0.8026	0.8057
neo	0.6810	0.1882	0.2945
new-thyroid	0.8596	0.7586	0.7817
new-thyroidT	1.0000	1.0000	1.0000
newspop	0.6616	0.3219	0.3231
NHANES_age_prediction	1.0000	1.0000	1.0000
nomao	0.9336	0.8668	0.8672
nursery	0.9840	0.9830	0.9830
obesity	0.9285	0.9170	0.9171
obs	0.9606	0.9450	0.9465
oh0-wc	0.8347	0.8414	0.8428
oh10-wc	0.7537	0.7063	0.7088
oh15-wc	0.8264	0.7899	0.7928
oh5-wc	0.8582	0.8133	0.8185
olive	0.8586	0.8246	0.8273
optdigits	0.9716	0.9664	0.9665
orlraws10P	0.7467	0.7778	0.7957
ozone1hr	0.4909	0.0000	0.0000
p53-mutants10%	0.4992	0.0000	0.0000
parkinson	1.0000	1.0000	1.0000
particle	0.9071	0.8135	0.8141
pc1	0.4813	0.0000	0.0000
pcmac	0.3681	0.0000	0.0000
pediatric-leukemia	0.5263	0.5367	0.5412
pendigits	0.9591	0.9545	0.9545
period-10f	0.4208	-0.1538	0.0000
persistence	0.7810	0.5556	0.5618
personalities	0.9456	0.9419	0.9419
pet-adoption	0.9316	0.8622	0.8631
phishing	0.9356	0.8708	0.8711
PhiUSIL10%	0.9970	0.9939	0.9940
phy	0.7122	0.4199	0.4244
Continued on next page			

Dataset	F1-macro	Kappa	MCC
pima	0.6053	0.1645	0.2034
pirvision	0.9877	0.9774	0.9775
placement	0.7814	0.5584	0.5627
plrx	0.4194	0.0000	0.0000
polya	0.7585	0.5126	0.5168
popularity	0.4883	0.2256	0.2549
post-operative	0.7568	0.4000	0.5000
postures	0.9807	0.9761	0.9761
pred-tox_mutagen_ref-desc	0.5763	0.1471	0.1525
prestige	0.7435	0.5179	0.5929
primary-tumor	0.2035	0.2011	0.2177
processed	1.0000	1.0000	1.0000
profb	0.5703	0.1402	0.1405
promoters	0.7917	0.5833	0.5833
puc-rio	0.9818	0.9853	0.9853
pufs-1281%	0.3334	0.0000	0.0000
pufs-6410%	0.3334	0.0000	0.0000
pulsar	0.9361	0.8705	0.8720
raisin	0.8305	0.6444	0.6610
rejafada	1.0000	1.0000	1.0000
relathe	0.9453	0.8873	0.8905
rice	0.9828	0.9656	0.9656
rocket	0.6017	0.1752	0.2002
RT_IOT2022	0.9519	0.9929	0.9929
satimage	0.8901	0.8809	0.8815
scadi	0.6600	0.6316	0.6667
schiller	0.4000	-0.1739	0.0000
sclerosis	1.0000	1.0000	1.0000
secom	0.5429	0.0808	0.0837
secondary_mushroom	0.9985	0.9970	0.9970
seeds	0.8095	0.7143	0.7143
segment	0.9440	0.9291	0.9293
segmentation	0.8172	0.6277	0.6344
segmentO	0.9828	0.9655	0.9655
seismic	0.4830	0.0000	0.0000
sens-2-gram	0.4648	0.0000	0.0000
sens-3-gram	0.5838	0.0286	0.0793
sens-4-gram	0.5313	0.0179	0.0361
sensorless	0.9877	0.9865	0.9865
shoppers	0.7419	0.4277	0.4730
sick	0.8564	0.6843	0.7093
sirtuin6	1.0000	1.0000	1.0000
smarket	1.0000	1.0000	1.0000
smk_can_187	0.3214	0.0000	0.0000
smoking	0.7326	0.4646	0.4652
soil_pollution	0.1855	-0.0168	0.0000
solar-flare	0.5446	0.6747	0.6830
sonar	0.6000	0.2000	0.2000
soybean	0.8654	0.8870	0.8885
spam-detection	0.8256	0.6204	0.6470
spambase	0.9110	0.8205	0.8220
spect	0.6787	0.3478	0.3563
spectf	0.7481	0.4948	0.4961
spectrometer	0.5427	0.6008	0.6061
squash-unstored	0.8240	0.6157	0.6626
startup	0.9885	0.9767	0.9769
steel_industry	0.8756	0.8369	0.8370
stellar	0.9700	0.9536	0.9536
Continued on next page			

Dataset	F1-macro	Kappa	MCC
stock	0.8452	0.6903	0.6905
stockb	0.9825	0.9736	0.9738
streaming	0.9920	0.9838	0.9839
stress	0.9697	0.9603	0.9609
student-depression	0.8237	0.6457	0.6473
student-habits	0.2122	0.0438	0.0452
student-lifestyle	0.3710	0.3708	0.3893
student-weekend	0.3423	0.1743	0.1752
student-workday	0.1651	0.0000	0.0000
studentap	0.2593	-0.0636	0.0000
swarm_aligned	0.9981	0.9961	0.9961
swarm_flocking	0.9971	0.9942	0.9942
swarm_grouped	0.9969	0.9938	0.9938
tae	0.4553	0.2000	0.2041
telco-churn	0.8535	0.7039	0.7068
texture	0.9654	0.9599	0.9600
theorem	1.0000	1.0000	1.0000
thoracic	0.4535	-0.0387	0.0000
Thyroid_Diff	0.8578	0.7040	0.7154
tis	0.8238	0.6476	0.6476
titanic	0.7833	0.5545	0.5660
tourist	0.5250	0.6364	0.6848
trains	0.3333	0.0000	0.0000
transfusion	0.5777	0.1549	0.1553
tuandromd	0.9507	0.9005	0.9014
turkish	0.6997	0.6000	0.6005
tvnews	0.9002	0.8004	0.8004
ur3_cobotops_grip	0.4917	0.0000	0.0000
ur3_cobotops_stop	0.4906	0.0000	0.0000
urban	0.7833	0.7727	0.7735
ustilago10%	0.4973	0.0000	0.0000
vehicle	0.6739	0.6295	0.6332
vote	0.8617	0.7202	0.7233
vowel	0.7270	0.6667	0.6757
wap-wc	0.5685	0.6482	0.6515
warpar10p	0.6149	0.6510	0.6646
warppie10p	0.9583	0.9470	0.9494
waveform	0.8017	0.7029	0.7032
weather-related	0.9696	0.9651	0.9653
weight-lift	0.9936	0.9916	0.9916
white-clover	0.3750	-0.2000	0.0000
wifi-loc	0.9800	0.9733	0.9734
wilt	0.8465	0.6931	0.6931
wine	0.9497	0.9000	0.9057
winequality-red	0.3351	0.3984	0.3997
winequality-white	0.4044	0.4025	0.4030
winnipeg10%	0.9812	0.9755	0.9756
wisc.bc	0.9243	0.8462	0.8487
yale	0.4267	0.4667	0.4829
yeast	0.3965	0.4648	0.4689
yeastCYT-POX	0.4896	0.0000	0.0000
yeastEXC	0.4932	0.0000	0.0000
yeastME1	0.4932	0.0000	0.0000
yeastME2	0.4879	0.0000	0.0000
zip	0.9328	0.9314	0.9314

Table 77: Detailed results for CALIFOREST 20

Dataset	F1-macro	Kappa	MCC
abalone	0.1144	0.0563	0.0596
abalone19	0.4937	0.0000	0.0000
accelerometer	0.6018	0.1375	0.1752
ads	0.9101	0.8063	0.8311
advanced-iot	1.0000	0.9949	0.9924
AID_1431	0.4730	0.0000	0.0000
AID_1431_KlekotaRothFingerprinter	0.4792	0.0000	0.0000
AID_1431_MACCSFingerprinter	0.4728	0.0000	0.0000
AID_1878	0.4478	0.0000	0.0000
AID_602330	0.4853	0.0000	0.0000
AID_652128	0.3104	0.0000	0.0000
AID1284red	0.4634	0.0000	0.0000
AID1608Morered	0.4808	0.0000	0.0000
AID1608red	0.4840	0.0000	0.0000
AID362red	0.4950	0.0000	0.0000
AID456red	0.4933	0.0000	0.0000
AID721morered	0.4357	0.0000	0.0000
AID721red	0.4387	0.0000	0.0000
aids	0.8096	0.5989	0.6171
air_pollution	0.0821	0.0000	0.0000
alcohol	0.4931	0.6281	0.6332
all-aml	0.9900	1.0000	0.9983
anneal	0.7662	0.9184	0.9251
antivirus	1.0000	1.0000	0.9957
anuran-f-b	0.9941	1.0000	0.9954
anxiety	0.0405	-0.0392	0.0000
apple-quality	0.8350	0.6720	0.6753
arcene	0.7683	0.5116	0.5316
arrhythmia	0.6240	0.5605	0.5689
auction	0.8814	0.7541	0.7537
audiology	0.7706	0.8565	0.8381
audit-risk	1.0000	0.9962	0.9970
autism-adolescent	1.0000	0.9962	0.9961
autism-adult	0.9949	0.9942	1.0000
autism-child	0.9971	0.9951	0.9976
autos	0.7887	0.7313	0.7477
avila	0.9309	0.9514	0.9526
balance	0.6007	0.7583	0.7604
bankruptcy	0.9964	0.9931	0.9957
biodeg	0.8145	0.6229	0.6286
biomed	0.9528	0.8950	0.8984
body-perf	0.7287	0.6339	0.6370
brain-tumor	0.4901	-0.0083	0.0000
breast-cancer	0.4168	0.0000	0.0000
breast-cancer-ma	0.6558	0.2878	0.3110
breast-tissue	0.6761	0.5710	0.5963
bridges	0.4643	0.4814	0.5758
cad	0.9557	0.9163	0.9230
cancer	0.9693	0.9346	0.9367
cancer-uae	0.3992	0.0021	0.0317
car-insurance	0.7941	0.5898	0.5857
cardiotocography-nsp	0.8720	0.7939	0.7990
cardiovascular	0.7355	0.4662	0.4768
cargo2k	0.9938	0.9965	1.0000
cars	0.7282	0.6485	0.6571
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Dataset	F1-macro	Kappa	MCC
cervical-B	0.8528	0.7091	0.7118
cervical-H	0.8652	0.7348	0.7380
cervical-S	0.8826	0.7512	0.7801
children-anemia	0.9376	0.9055	0.9092
chrom211%	0.4951	0.0000	0.0000
churn	0.7518	0.4813	0.4937
cjs	0.9884	0.9947	0.9926
ckd	0.9990	1.0000	0.9966
clave	0.6339	0.6954	0.6940
cll_sub_111	0.5484	0.2785	0.4706
cmc	0.5736	0.3934	0.4021
cnae-9	0.9457	0.9420	0.9383
codon_usage	0.7437	0.8927	0.8939
coil20	0.9737	0.9684	0.9665
college	0.8998	0.7974	0.8020
collins	0.8889	0.8706	0.8631
colon-tumor	0.3955	0.0000	0.0000
colposcopies-1	0.6637	0.1267	0.2610
colposcopies-2	0.6867	0.2164	0.3474
colposcopies-4	0.4157	0.0000	0.0000
colposcopies-5	0.4552	0.0000	0.0000
colposcopies-c	0.6746	0.2980	0.3385
column-2c	0.8593	0.7183	0.7218
column-3c	0.6525	0.5699	0.5758
coupon	0.6885	0.3791	0.3832
covtypeCD	0.9421	0.9054	0.8979
covtypeT	0.8883	0.7867	0.7836
crabs	0.7163	0.5988	0.6141
crowdsourced	0.7318	0.8722	0.8729
cryotherapy	0.7377	0.3705	0.4724
cultivars	0.3032	0.3241	0.3201
cybersecurity	0.1243	0.0053	0.0063
cyclopentane	0.6663	0.3300	0.3300
cylinder-bands	0.7173	0.4256	0.4262
datatrieve	0.3809	-0.1390	0.0000
dbworld	0.9966	0.9979	1.0000
default	0.7167	0.3836	0.4215
dementia	0.9981	0.9946	0.9985
depressed	0.4527	0.0000	0.0000
dermatology	0.9717	0.9646	0.9581
desharnais	0.4538	0.2368	0.3502
df_final	0.7022	0.5058	0.5408
DIA	0.6931	0.1871	0.3230
diagnosis	1.0000	0.9996	0.9935
diamonds	0.9888	0.9902	0.9927
diamonds_all	0.7794	0.6859	0.6955
dishonest	0.9927	0.9919	1.0000
dlbcl-nih	0.4150	-0.1644	0.0000
dlbcl-stanford	0.8331	0.6162	0.6630
drebin	0.9625	0.9206	0.9207
dropout	0.6738	0.5822	0.5901
ecoli	0.6945	0.7923	0.7966
ecoliCP-IM	0.9113	0.8094	0.8253
ecoliM	0.7971	0.5765	0.6010
ecoliMU	0.6740	0.3538	0.3585
ecoliOM	0.7302	0.4643	0.4670
ecommerce	0.1892	0.0452	0.0564
euthyroid	0.8953	0.7978	0.7994
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Dataset	F1-macro	Kappa	MCC
fakenews	0.5014	0.0002	0.0010
fbis-wc	0.7882	0.7953	0.8020
finance	0.8052	0.6097	0.6034
financial-risk	0.5682	0.7965	0.7974
flags	0.4538	0.6713	0.6883
forest	0.8986	0.8914	0.8934
gas	0.9829	0.9770	0.9744
gastrointestinal	0.4457	0.1447	0.2757
gender	0.4736	0.1817	0.1960
german	0.6248	0.2093	0.2454
gestures	0.9352	0.8996	0.9054
gina	0.9300	0.8544	0.8608
gisette	0.9645	0.9170	0.9236
glass	0.6432	0.5415	0.5631
glass-g2	0.7039	0.3915	0.4200
glassBWFP	0.8958	0.7911	0.7908
glassBWNFP	0.7917	0.4981	0.5767
glassContainers	0.4753	0.0000	0.0000
glassNW	0.9368	0.8741	0.8823
glassTableware	0.4872	0.0000	0.0000
GlaucomaM	0.7945	0.5804	0.5964
gli_85	0.4273	0.0000	0.0000
glioma	0.6034	0.6678	0.7162
glioma-grade	0.8612	0.7284	0.7246
green	0.4559	-0.0861	0.0000
gsalc	0.6614	0.5912	0.6005
haberman	0.4110	-0.0625	0.0000
hapt	0.8325	0.9364	0.9545
har	0.9756	0.9808	0.9753
health-activity	0.2158	0.0000	0.0000
heart	0.7409	0.4826	0.4947
heart-c	0.8277	0.5888	0.6411
heart-failure	0.9721	0.9417	0.9401
heart-quantum	0.8865	0.7585	0.7779
hepatitis	0.4421	0.0000	0.0000
higher	0.0678	0.0547	0.0632
hinselmann	0.4415	0.0000	0.0000
hitters	0.8419	0.6766	0.6789
hiv1-proteasa	0.8017	0.5828	0.5877
hiva	0.4866	-0.0044	0.0000
horse	0.5544	0.1936	0.2392
hotel-reservartions	0.8656	0.7266	0.7218
hr	0.4585	0.0000	0.0000
htru2	0.9363	0.8620	0.8696
hypothyroid	0.7332	0.9682	0.9645
immuno-therapy	0.4396	0.0000	0.0000
ionosphere	0.8771	0.7468	0.7515
iris	1.0000	0.9937	0.9933
irish	0.9770	0.9574	0.9586
isolet	0.9029	0.8974	0.8898
jm1	0.6095	0.1694	0.2064
javowels	0.9521	0.9509	0.9473
kc1-class-level-numericdefect	0.1641	0.0000	0.0000
kc1-class-level-top5percentDF	0.4821	0.0000	0.0000
kc2	0.6513	0.2937	0.2988
kdc-4007	0.7785	0.7439	0.7404
kidney	0.1769	0.0000	0.0000
kidney-disease	0.9906	1.0000	0.9997
Continued on next page			

Dataset	F1-macro	Kappa	MCC
la2s-wc	0.8524	0.8289	0.8325
labor	0.9933	0.9996	0.9971
leaf	0.7429	0.7049	0.6924
led24	0.5191	0.4890	0.5028
lenses	0.1651	0.0000	0.0000
letter	0.9313	0.9236	0.9274
linkage1%	0.8561	0.7081	0.7162
loan	0.9666	0.9531	0.9551
lrs	0.6385	0.7864	0.8007
lung_discrete	1.0000	0.9958	0.9921
lymphography	0.8433	0.6090	0.6201
lymphoma2	0.6224	0.6938	0.7164
machine-failure	0.9270	0.8431	0.8498
magic04	0.8517	0.7076	0.7090
malware	1.0000	0.9962	0.9933
mammography	0.8423	0.6857	0.6938
marketing	0.7074	0.4010	0.4136
mba	0.3802	0.0137	0.0528
mental-disorders	0.8634	0.7725	0.7966
messidor	0.6672	0.3429	0.3415
meter-A	0.8635	0.7089	0.7426
meter-B	0.5916	0.3563	0.3810
meter-C	0.9524	0.9191	0.9226
meter-D	0.9987	0.9898	0.9996
mfeat-fac	0.9476	0.9483	0.9523
mfeat-fou	0.8311	0.8157	0.8173
mfeat-kar	0.9285	0.9222	0.9208
mfeat-mor	0.7222	0.6910	0.6904
mfeat-pix	0.9418	0.9335	0.9369
mfeat-zer	0.8096	0.7758	0.7864
mice-prot	0.9685	0.9575	0.9613
milk	0.9850	0.9782	0.9825
mines	0.4987	0.4098	0.4218
mobile	0.9183	0.9157	0.9135
monks-1	0.8951	0.7790	0.7971
monks-3	0.9594	0.9299	0.9264
mushroom	0.9939	0.9934	0.9910
music	0.5472	0.4233	0.4300
MUT_ci300400a_cdk_ECFP2	0.7396	0.4978	0.4924
MUT_ci300400a_cdk_ECFP4	0.7691	0.5388	0.5355
MUT_ci300400a_cdk_ECFP6	0.7365	0.4731	0.4703
MUT_ci300400a_cdk_ESTATE	0.7323	0.4716	0.4769
MUT_ci300400a_cdk_EXTENDED	0.7850	0.5707	0.5722
MUT_ci300400a_cdk_FCFP2	0.7633	0.5344	0.5346
MUT_ci300400a_cdk_FCFP4	0.7180	0.4366	0.4366
MUT_ci300400a_cdk_FCFP6	0.7419	0.4878	0.4863
MUT_ci300400a_cdk_MACCS	0.7823	0.5728	0.5699
MUT_ci300400a_cdk_PUBCHEM	0.8015	0.5961	0.5979
MUT_ci300400a_cdk_STANDARD	0.7775	0.5587	0.5594
MUT_ci300400a_rdkit_descriptors	0.7870	0.5648	0.5682
myocardial	0.2925	0.3362	0.4519
naticusdroid	0.9637	0.9237	0.9223
nci9	0.5938	0.5948	0.6618
neo	0.6798	0.1869	0.2955
new-thyroid	0.9974	0.9980	0.9989
new-thyroidT	0.8933	0.7748	0.7896
NHANES_age_prediction	0.9994	0.9983	1.0000
nursery	0.9541	0.9674	0.9644
Continued on next page			

Dataset	F1-macro	Kappa	MCC
obesity	0.8972	0.8898	0.8841
obs	0.9440	0.9159	0.9197
oh0-wc	0.9185	0.9200	0.9193
oh10-wc	0.7474	0.7488	0.7521
oh15-wc	0.8920	0.8619	0.8602
oh5-wc	0.8232	0.7584	0.7628
olive	0.8216	0.8853	0.8924
optdigits	0.9616	0.9513	0.9548
orlraws10P	0.7510	0.7840	0.7947
ozone1hr	0.4929	0.0000	0.0000
p53-mutants10%	0.4986	-0.0032	0.0000
parkinson	0.9748	0.9476	0.9465
pc1	0.4804	-0.0161	0.0000
pcmac	0.3611	-0.0408	0.0000
pediatric-leukemia	0.7583	0.7444	0.7508
pendigits	0.9931	0.9840	0.9879
period-10f	0.5945	0.1805	0.1879
persistence	0.7590	0.5125	0.5293
pet-adoption	0.9111	0.8112	0.8182
phishing	0.9315	0.8557	0.8570
pima	0.6317	0.2608	0.2598
pirvision	0.9594	0.9579	0.9533
placement	0.7887	0.5781	0.5784
plrx	0.4162	0.0000	0.0000
polya	0.7564	0.5127	0.5134
post-operative	0.4003	0.0000	0.0000
pred-tox_mutagen_ref-desc	0.6883	0.3816	0.3893
prestige	0.7975	0.6496	0.6903
primary-tumor	0.2054	0.2018	0.2154
profb	0.3993	0.0000	0.0000
promoters	0.3742	0.0000	0.0000
pulsar	0.9482	0.8940	0.8923
raisin	0.8960	0.8017	0.7999
rejafada	0.9975	0.9979	0.9971
relathe	0.9822	0.9718	0.9671
rice	0.9873	0.9669	0.9735
rocket	0.6375	0.2672	0.2795
satimage	0.8807	0.8753	0.8795
scadi	0.6496	0.6246	0.6613
schiller	0.8358	0.6048	0.6535
sclerosis	0.9964	0.9991	0.9973
secom	0.4828	0.0000	0.0000
seeds	0.9969	1.0000	0.9994
segment	0.9476	0.9347	0.9317
segmentation	0.7890	0.5771	0.5817
segmentO	0.9841	0.9778	0.9792
seismic	0.4795	0.0000	0.0000
sens-2-gram	0.4650	0.0000	0.0000
sens-3-gram	0.6558	0.0340	0.1315
sens-4-gram	0.4675	0.0000	0.0000
shoppers	0.7866	0.5594	0.5728
sick	0.8776	0.7438	0.7632
sirtuin6	0.9944	1.0000	0.9935
smarket	0.9973	0.9894	0.9904
smk.can_187	0.5626	0.0851	0.1219
smoking	0.7301	0.4580	0.4604
soil_pollution	0.0962	-0.0462	0.0000
solar-flare	0.6352	0.6709	0.6850
Continued on next page			

Dataset	F1-macro	Kappa	MCC
sonar	0.5987	0.1991	0.2017
soybean	0.9753	0.9843	0.9804
spam-detection	0.8459	0.6759	0.6854
spambase	0.9359	0.8668	0.8815
spect	0.4423	0.0000	0.0000
spectf	0.7300	0.4227	0.4629
spectrometer	0.5359	0.5933	0.6049
squash-unstored	0.8346	0.6153	0.6603
startup	0.9923	0.9784	0.9717
steel_industry	0.8678	0.8389	0.8398
stellar	0.9751	0.9385	0.9428
stock	0.8283	0.6699	0.6708
stockb	0.9894	0.9945	0.9966
streaming	0.9817	0.9692	0.9678
stress	0.9975	0.9887	0.9946
student-habits	0.1076	-0.0157	0.0000
student-lifestyle	0.3366	0.3907	0.3950
student-weekend	0.2594	0.1522	0.1856
student-workday	0.1648	0.0000	0.0000
studentap	0.2925	-0.0835	0.0000
swarm_aligned	1.0000	0.9981	1.0000
swarm_flocking	1.0000	0.9946	1.0000
tae	0.5958	0.2999	0.3468
telco-churn	0.8657	0.7285	0.7359
texture	0.9695	0.9607	0.9678
theorem	0.9766	0.9503	0.9564
thoracic	0.4585	0.0000	0.0000
Thyroid_Diff	0.9378	0.8644	0.8739
tis	0.8767	0.7602	0.7693
titanic	0.7944	0.5126	0.5823
tourist	0.5200	0.6274	0.6853
trains	0.3353	0.0000	0.0000
transfusion	0.5942	0.1959	0.1956
tuandromd	0.9589	0.9362	0.9359
turkish	0.8235	0.7663	0.7657
ur3_cobotops_grip	0.6748	0.0774	0.2003
ur3_cobotops_stop	0.4898	0.0000	0.0000
urban	0.7274	0.7915	0.7941
vehicle	0.7431	0.6499	0.6879
vote	0.8959	0.7612	0.7850
vowel	0.6088	0.5103	0.5220
wap-wc	0.6428	0.8185	0.8165
warpar10p	0.4411	0.4837	0.4957
warppie10p	0.9157	0.8876	0.8900
waveform	0.8416	0.7572	0.7637
weather-related	0.9687	0.9669	0.9652
weight-lift	0.9939	0.9808	0.9858
white-clover	0.3996	0.0000	0.0000
wifi-loc	0.9791	0.9827	0.9900
wilt	0.8628	0.7326	0.7278
wine	0.9925	0.9995	0.9960
winequality-red	0.3063	0.3716	0.3799
winequality-white	0.3796	0.3915	0.3983
wisc.bc	0.9797	0.9625	0.9578
yale	0.4304	0.4603	0.4805
yeast	0.2950	0.3844	0.3915
yeastCYT-POX	0.9015	0.7873	0.7990
yeastEXC	0.4899	0.0000	0.0000
Continued on next page			

Dataset	F1-macro	Kappa	MCC
yeastME1	0.6737	0.3213	0.3393
yeastME2	0.4864	0.0000	0.0000
zip	0.9312	0.9197	0.9195

Table 78: Detailed results for ExtraTrees 20

Dataset	F1-macro	Kappa	MCC
abalone	0.1043	0.0603	0.0617
abalone19	0.5421	0.0189	0.0469
accelerometer	0.6823	0.2492	0.3257
ads	0.9390	0.8742	0.8766
advanced-iot	0.9989	1.0000	0.9994
AID.1431	0.4599	-0.0787	0.0000
AID.1431_KlekotaRothFingerprinter	0.4260	-0.1260	0.0000
AID.1431_MACCSFingerprinter	0.4549	-0.0790	0.0000
AID.1878	0.5351	0.0736	0.0739
AID.602330	0.4768	-0.0406	0.0000
AID.652128	0.2949	-0.0753	0.0000
AID1284red	0.5856	0.1633	0.1710
AID1608Mored	0.5587	0.1097	0.1180
AID1608red	0.4594	-0.0436	0.0000
AID362red	0.4442	-0.0266	0.0000
AID456red	0.4784	-0.0058	0.0000
AID721mored	0.7970	0.5260	0.5950
AID721red	0.9856	0.9996	1.0000
aids	0.8409	0.6826	0.6859
air_pollution	0.1752	0.0497	0.0503
alcohol	0.5571	0.6051	0.6165
all-aml	1.0000	0.9909	0.9926
anneal	0.8106	0.7235	0.7562
antivirus	0.9942	0.9918	1.0000
anuran-f-b	0.7619	0.3929	0.4908
anxiety	0.0954	-0.0211	0.0000
apple-quality	0.8363	0.6593	0.6654
arcene	0.7284	0.4230	0.4557
arrhythmia	0.6846	0.6734	0.6709
auction	0.7785	0.4693	0.5550
audiology	0.6014	0.7013	0.7028
audit-risk	0.9660	0.9375	0.9505
autism-adolescent	0.6882	0.3759	0.3817
autism-adult	0.9643	0.9250	0.9159
autism-child	0.9054	0.7892	0.8081
autos	0.7319	0.6103	0.6102
avila	0.8750	0.9305	0.9267
balance	0.6006	0.5291	0.5556
bankruptcy	0.9924	0.9976	0.9870
biodeg	0.8654	0.7362	0.7335
biomed	0.9970	0.9954	0.9954
body-perf	0.7156	0.6255	0.6288
brain-tumor	0.5079	0.0209	0.0208
breast-cancer	0.5983	0.1887	0.2025
breast-cancer-ma	0.5507	0.0982	0.1002
breast-tissue	0.7194	0.6662	0.6800
bridges	0.4520	0.5702	0.5812
cad	0.9572	0.9201	0.9261
cancer	0.9964	1.0000	1.0000
cancer-uae	0.3220	-0.0149	0.0000
car-insurance	0.8013	0.5953	0.6088
cardiotocography-nsp	0.7952	0.6899	0.6992
cardiovascular	0.7424	0.4641	0.4762
cargo2k	0.9935	0.9972	0.9931
cars	0.6645	0.5712	0.5874
Continued on next page			

Dataset	F1-macro	Kappa	MCC
cervical-B	0.8786	0.7535	0.7515
cervical-H	0.7757	0.4304	0.5255
cervical-S	0.7805	0.5515	0.5638
children-anemia	0.6408	0.6031	0.6012
chrom211%	0.4988	0.0000	0.0000
churn	0.7096	0.4038	0.4193
cjs	0.9898	0.9870	0.9902
ckd	1.0000	1.0000	1.0000
clave	0.6633	0.6646	0.6670
cll_sub_111	0.6687	0.3315	0.3344
cmc	0.5011	0.2613	0.2645
cnae-9	0.9109	0.8933	0.8975
codon_usage	0.7364	0.8766	0.8754
coil20	0.9968	0.9979	0.9986
college	0.8853	0.7732	0.7678
collins	0.7741	0.7806	0.7828
colon-tumor	0.7502	0.3968	0.4980
colposcopies-1	0.6810	0.3586	0.3636
colposcopies-2	0.6545	0.3023	0.3116
colposcopies-4	0.5683	0.1357	0.1361
colposcopies-5	0.6052	0.2163	0.2176
colposcopies-c	0.6947	0.3717	0.3809
column-2c	0.8814	0.7342	0.7573
column-3c	0.8092	0.7389	0.7454
coupon	0.7149	0.4208	0.4244
covtypeCD	0.8947	0.7735	0.7890
covtypeT	0.7976	0.5198	0.5838
crabs	0.8067	0.7339	0.7353
crowdsourced	0.8284	0.8560	0.8516
cryotherapy	0.8113	0.5690	0.6264
cultivars	0.4396	0.4843	0.4873
cybersecurity	0.1780	0.0129	0.0129
cyclopentane	0.5026	0.0168	0.0169
cylinder-bands	0.6696	0.3416	0.3477
datatrieve	0.3509	-0.1464	0.0000
dbworld	1.0000	0.9927	1.0000
default	0.7059	0.3842	0.4185
dementia	0.9969	0.9950	0.9941
depressed	0.5785	0.1547	0.1560
dermatology	0.9610	0.9637	0.9652
desharnais	0.1651	-0.1696	0.0000
df_final	0.4463	0.0698	0.0750
DIA	0.6271	0.2559	0.2548
diagnosis	1.0000	0.9966	0.9928
diamonds	0.9700	0.9627	0.9750
diamonds_all	0.7639	0.6927	0.6884
dishonest	0.9956	1.0000	0.9925
dlbcl-nih	0.4248	-0.1356	0.0000
dlbcl-stanford	0.8324	0.6163	0.6632
drebin	0.9683	0.9454	0.9447
dropout	0.6851	0.5837	0.5846
ecoli	0.6817	0.7915	0.8014
ecoliCP-IM	0.9951	0.9979	0.9968
ecoliM	0.7724	0.5231	0.5539
ecoliMU	0.6175	0.1658	0.2224
ecoliOM	0.6000	0.1403	0.1790
ecommerce	0.2961	0.0551	0.0569
euthyroid	0.6666	0.2166	0.3107
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Dataset	F1-macro	Kappa	MCC
fakenews	0.4793	-0.0401	0.0000
fbis-wc	0.7610	0.7810	0.7789
finance	0.6095	0.2181	0.2224
financial-risk	0.6175	0.6749	0.6873
flags	0.3953	0.4523	0.4605
forest	0.8790	0.8659	0.8652
gas	0.9901	0.9926	0.9927
gastrointestinal	0.5055	0.3962	0.4038
gender	0.4638	0.1854	0.1872
german	0.6641	0.3378	0.3379
gestures	0.9251	0.8984	0.8971
gina	0.9535	0.8968	0.9048
gisette	0.9526	0.9242	0.9174
glass	0.9195	0.8672	0.8685
glass-g2	0.7345	0.4651	0.4679
glassBWFP	0.8541	0.7019	0.7044
glassBWNFP	0.8371	0.6264	0.6747
glassContainers	0.7251	0.4443	0.4478
glassNW	0.9370	0.8705	0.8803
glassTableware	0.7019	0.2248	0.3539
GlaucomaM	0.7920	0.5804	0.5948
gli_85	0.3849	-0.1982	0.0000
glioma	0.8303	0.7046	0.7480
glioma-grade	0.8724	0.7325	0.7401
green	0.5221	0.0471	0.0474
gsalc	0.9114	0.8638	0.8788
haberman	0.5832	0.1606	0.1650
hapt	0.8222	0.9335	0.9291
har	0.9783	0.9787	0.9810
health-activity	0.3313	0.1051	0.1143
heart	0.8152	0.6280	0.6486
heart-c	0.8768	0.7258	0.7513
heart-failure	0.9671	0.9283	0.9324
heart-quantum	0.8858	0.7586	0.7651
hepatitis	0.8543	0.6628	0.6993
higher	0.2226	0.0772	0.0793
hinselmann	0.3324	-0.3178	0.0000
hitters	0.9308	0.8720	0.8706
hiv1-proteasa	0.8292	0.6467	0.6550
hiva	0.5603	0.1204	0.1229
horse	0.5596	0.2501	0.2518
hotel-reservartions	0.8681	0.7306	0.7270
hr	0.4727	-0.0467	0.0000
htru2	0.8907	0.7716	0.7790
hypothyroid	0.5163	0.3686	0.4517
immuno-therapy	0.7967	0.5228	0.5979
ionosphere	0.9003	0.8018	0.8059
iris	1.0000	0.9915	1.0000
irish	0.9949	0.9990	0.9912
isolet	0.9032	0.9066	0.9052
jm1	0.6498	0.2808	0.2925
javowels	0.9573	0.9618	0.9582
kc1-class-level-numericdefect	0.2991	0.2177	0.2276
kc1-class-level-top5percentDF	0.3742	-0.1250	0.0000
kc2	0.7729	0.5086	0.5540
kdc-4007	0.7945	0.7537	0.7533
kidney	0.1769	0.0000	0.0000
kidney-disease	1.0000	1.0000	0.9979
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Dataset	F1-macro	Kappa	MCC
la2s-wc	0.8516	0.8455	0.8512
labor	0.9975	0.9893	0.9946
leaf	0.5708	0.5949	0.6031
led24	0.7771	0.7156	0.7148
lenses	0.5642	0.4982	0.6097
letter	0.9379	0.9337	0.9423
linkage1%	0.8539	0.7182	0.7232
loan	0.9452	0.8866	0.8813
lrs	0.6554	0.7729	0.7723
lung_discrete	1.0000	0.9974	0.9979
lymphography	0.7242	0.5432	0.5776
lymphoma2	0.7843	0.8450	0.8630
machine-failure	0.9209	0.8484	0.8391
magic04	0.8272	0.6578	0.6541
malware	0.9969	0.9964	0.9967
mammography	0.8117	0.6294	0.6306
marketing	0.7742	0.5037	0.5367
mba	0.4960	0.2473	0.3000
mental-disorders	0.7587	0.6633	0.6847
messidor	0.6634	0.3192	0.3296
meter-A	0.7524	0.3828	0.4861
meter-B	0.9996	0.9946	0.9988
meter-C	0.9955	0.9948	0.9903
meter-D	1.0000	0.9886	0.9996
mfeat-fac	0.9517	0.9529	0.9456
mfeat-fou	0.7776	0.7558	0.7454
mfeat-kar	0.9734	0.9723	0.9721
mfeat-mor	0.6950	0.6616	0.6578
mfeat-pix	0.9815	0.9731	0.9791
mfeat-zer	0.7700	0.7420	0.7429
mice-prot	1.0000	0.9985	0.9947
milk	0.9817	0.9814	0.9780
mines	0.6035	0.5195	0.5218
mobile	0.9496	0.9346	0.9418
monks-1	0.7737	0.5192	0.5510
monks-3	0.9091	0.8191	0.8253
mushroom	0.9875	0.9919	0.9988
music	0.4824	0.3689	0.3735
MUT_ci300400a_cdk_ECFP2	0.7690	0.5376	0.5390
MUT_ci300400a_cdk_ECFP4	0.7958	0.5980	0.6035
MUT_ci300400a_cdk_ECFP6	0.7546	0.5059	0.5107
MUT_ci300400a_cdk_ESTATE	0.7246	0.4402	0.4463
MUT_ci300400a_cdk_EXTENDED	0.7966	0.5899	0.5932
MUT_ci300400a_cdk_FCFP2	0.7638	0.5253	0.5297
MUT_ci300400a_cdk_FCFP4	0.7657	0.5161	0.5259
MUT_ci300400a_cdk_FCFP6	0.7713	0.5425	0.5457
MUT_ci300400a_cdk_MACCS	0.7877	0.5821	0.5831
MUT_ci300400a_cdk_PUBCHEM	0.8069	0.6166	0.6198
MUT_ci300400a_cdk_STANDARD	0.7722	0.5602	0.5630
MUT_ci300400a_rdkit_descriptors	0.7835	0.5793	0.5766
myocardial	0.3592	0.4543	0.4566
naticusdroid	0.9661	0.9291	0.9251
nci9	0.7859	0.7941	0.8264
neo	0.6844	0.1909	0.2915
new-thyroid	0.9979	0.9944	0.9998
new-thyroidT	0.9164	0.8273	0.8318
NHANES_age_prediction	0.9057	0.7952	0.8152
nursery	0.9163	0.9542	0.9474
Continued on next page			

Dataset	F1-macro	Kappa	MCC
obesity	0.8430	0.8098	0.8144
obs	0.9367	0.9048	0.9055
oh0-wc	0.9126	0.8857	0.8929
oh10-wc	0.7802	0.7790	0.7856
oh15-wc	0.9151	0.9004	0.8937
oh5-wc	0.8916	0.8759	0.8748
olive	0.9364	0.9365	0.9382
optdigits	0.9636	0.9501	0.9539
orlraws10P	0.8724	0.8905	0.8982
ozone1hr	0.5825	0.1654	0.1689
p53-mutants10%	0.4946	-0.0051	0.0000
parkinson	0.9367	0.8715	0.8750
pc1	0.6368	0.2176	0.2650
pcmac	0.5253	0.0525	0.0525
pediatric-leukemia	0.7122	0.7080	0.7106
pendigits	0.9783	0.9796	0.9804
period-10f	0.4982	0.0000	0.0000
persistence	0.8010	0.5945	0.5953
pet-adoption	0.8724	0.7558	0.7546
phishing	0.9390	0.8843	0.8874
pima	0.7360	0.4781	0.4803
pirvision	0.9223	0.8861	0.8901
placement	0.7807	0.5664	0.5653
plrx	0.5284	0.0524	0.0558
polya	0.7608	0.5239	0.5262
post-operative	0.3050	-0.3614	0.0000
pred-tox_mutagen_ref-desc	0.7469	0.5007	0.4998
prestige	0.8844	0.8297	0.8412
primary-tumor	0.3719	0.3365	0.3475
profb	0.5472	0.0904	0.0951
promoters	1.0000	0.9953	0.9902
pulsar	0.9050	0.8256	0.8256
raisin	0.8552	0.7107	0.7179
rejafada	0.7135	0.2517	0.3775
relathe	0.9897	0.9876	0.9894
rice	0.9876	0.9726	0.9751
rocket	0.6680	0.3088	0.3332
satimage	0.8897	0.8819	0.8761
scadi	0.6538	0.6301	0.6681
schiller	0.4351	0.0000	0.0000
sclerosis	0.9988	0.9915	1.0000
secom	0.4795	-0.0117	0.0000
seeds	0.9101	0.8523	0.8689
segment	0.9530	0.9463	0.9434
segmentation	0.8173	0.6093	0.6257
segmentO	0.9290	0.8599	0.8643
seismic	0.5995	0.1442	0.1871
sens-2-gram	0.6445	0.2894	0.2909
sens-3-gram	0.6310	0.2662	0.2665
sens-4-gram	0.6160	0.2320	0.2349
shoppers	0.7683	0.5061	0.5396
sick	0.6526	0.1925	0.2815
sirtuin6	0.9922	0.9987	0.9931
smarket	0.9749	0.9488	0.9505
smk_can_187	0.5779	0.1554	0.1545
smoking	0.7216	0.4615	0.4712
soil_pollution	0.1712	-0.0333	0.0000
solar-flare	0.6558	0.6642	0.6750
Continued on next page			

Dataset	F1-macro	Kappa	MCC
sonar	0.5993	0.1993	0.2003
soybean	0.9789	0.9571	0.9515
spam-detection	0.8074	0.5915	0.6186
spambase	0.9143	0.8366	0.8370
spect	0.6829	0.3106	0.3638
spectf	0.7583	0.5014	0.5162
spectrometer	0.4834	0.5578	0.5640
squash-unstored	0.9960	0.9940	0.9937
startup	0.9903	1.0000	0.9949
steel_industry	0.8497	0.8098	0.8043
stellar	0.9711	0.9637	0.9619
stock	0.8590	0.7221	0.7265
stockb	0.9781	0.9707	0.9709
streaming	0.9044	0.8210	0.8224
stress	0.9891	1.0000	0.9976
student-habits	0.2668	0.0782	0.0804
student-lifestyle	0.3820	0.2871	0.2959
student-weekend	0.2541	0.0963	0.0997
student-workday	0.2186	0.1289	0.1301
studentap	0.5535	0.2919	0.2911
swarm_aligned	1.0000	0.9893	1.0000
swarm_flocking	0.9993	0.9994	0.9972
tae	0.6171	0.3988	0.4216
telco-churn	0.8551	0.7016	0.7039
texture	0.9744	0.9752	0.9673
theorem	0.9938	0.9939	0.9896
thoracic	0.5648	0.1088	0.1192
Thyroid_Diff	0.9347	0.8681	0.8714
tis	0.8575	0.7139	0.7162
titanic	0.7107	0.4175	0.4206
tourist	0.5247	0.6335	0.6822
trains	0.3332	0.0000	0.0000
transfusion	0.5497	0.0947	0.0984
tuandromd	0.9466	0.9013	0.9058
turkish	0.7915	0.7258	0.7319
ur3_cobotops_grip	0.6258	0.1667	0.2250
ur3_cobotops_stop	0.6712	0.2416	0.3176
urban	0.8197	0.7864	0.7940
vehicle	0.7035	0.6683	0.6771
vote	0.9255	0.8541	0.8548
vowel	0.7523	0.7084	0.7151
wap-wc	0.6255	0.7949	0.7948
warpar10p	0.7270	0.7366	0.7447
warppie10p	0.9989	0.9964	0.9983
waveform	0.8515	0.7763	0.7846
weather-related	0.9746	0.9655	0.9620
weight-lift	0.9961	0.9932	0.9958
white-clover	0.3741	-0.1997	0.0000
wifi-loc	0.9884	0.9900	0.9889
wilt	0.7731	0.4476	0.5324
wine	0.9930	0.9990	0.9944
winequality-red	0.2752	0.2560	0.2647
winequality-white	0.3977	0.3674	0.3726
wisc.bc	0.9734	0.9543	0.9626
yale	0.6540	0.6679	0.6796
yeast	0.3823	0.4655	0.4644
yeastCYT-POX	0.7646	0.4087	0.5057
yeastEXC	0.6608	0.1754	0.2635
Continued on next page			

Dataset	F1-macro	Kappa	MCC
yeastME1	0.7275	0.2845	0.4110
yeastME2	0.6919	0.3572	0.3772
zip	0.9422	0.9480	0.9383

Table 79: Detailed results for RerF 20

Dataset	F1-macro	Kappa	MCC
abalone	0.0735	0.0508	0.0534
abalone19	0.4977	0.0000	0.0000
accelerometer	0.4955	0.0000	0.0000
ads	0.8936	0.7633	0.7856
adult	0.7816	0.5675	0.5738
advanced-iot	0.9917	0.9966	0.9881
AID_1431	0.4772	0.0000	0.0000
AID_1431_KlekotaRothFingerprinter	0.4772	0.0000	0.0000
AID_1431_MACCSFingerprinter	0.4772	0.0000	0.0000
AID_1878	0.4503	0.0000	0.0000
AID_602330	0.4894	0.0000	0.0000
AID_652128	0.3118	0.0000	0.0000
AID1284red	0.4375	-0.1163	0.0000
AID1608Morered	0.4824	0.0000	0.0000
AID1608red	0.4850	0.0000	0.0000
AID362red	0.4965	0.0000	0.0000
AID373AID439red	0.5000	0.0000	0.0000
AID373red	0.4997	0.0000	0.0000
AID456red	0.4992	0.0000	0.0000
AID604	0.4991	0.0000	0.0000
AID604AID644_AllRed	0.4997	0.0000	0.0000
AID687AID721red	0.4998	0.0000	0.0000
AID687red	0.4992	0.0000	0.0000
AID688red	0.4977	0.0000	0.0000
AID721morered	0.4000	-0.1739	0.0000
AID721red	0.4000	-0.1739	0.0000
AID746AID1284red	0.4997	0.0000	0.0000
AID746red	0.4985	0.0000	0.0000
aids	0.8173	0.6081	0.6326
air_pollution	0.0826	0.0000	0.0000
alcohol	0.3343	0.2045	0.3009
all-aml	1.0000	1.0000	1.0000
anneal	0.7856	0.9523	0.9526
antivirus	1.0000	1.0000	1.0000
anuran-f-b	0.9626	0.9224	0.9252
anxiety	0.1346	0.0232	0.0236
apple-quality	0.8701	0.7400	0.7401
aps-failure	0.8463	0.6591	0.6874
arabidopsis1%	0.4980	0.0000	0.0000
arcene	0.7292	0.4231	0.4583
arrhythmia	0.3556	0.4063	0.4363
auction	0.8692	0.7261	0.7374
audiology	0.7424	0.8390	0.8453
audit-risk	1.0000	1.0000	1.0000
autism-adolescent	0.8451	0.6452	0.6901
autism-adult	0.9820	0.9633	0.9639
autism-child	1.0000	1.0000	1.0000
autos	0.9243	0.8680	0.8768
avila	0.8916	1.0000	1.0000
balance	0.6335	0.8485	0.8552
bank	0.6876	0.2743	0.3443
bankruptcy	1.0000	1.0000	1.0000
bio	0.8832	0.7411	0.7634
biodeg	0.8203	0.6400	0.6405
biomed	1.0000	1.0000	1.0000
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Dataset	F1-macro	Kappa	MCC
bitcoin10%	0.1623	0.0462	0.1304
body-perf	0.6928	0.5910	0.5929
brain-tumor	0.5068	0.0134	0.0137
breast-cancer	0.8250	0.5882	0.6455
breast-cancer-ma	0.5222	0.0351	0.0430
breast-tissue	0.7179	0.6733	0.6869
bridges	0.4750	0.5161	0.5521
bub12at310k-hg16-17	0.6815	0.2754	0.3353
cad	1.0000	1.0000	1.0000
cancer	1.0000	1.0000	1.0000
cancer-uae	0.2913	-0.0573	0.0000
car-insurance	0.8050	0.6070	0.6100
cardiotocography-nsp	0.8216	0.7548	0.7584
cardiovascular	0.7383	0.4660	0.4811
cargo2k	1.0000	1.0000	1.0000
cars	0.6570	0.5354	0.5360
ccds10%	0.4902	0.0000	0.0000
cdc_diabetes	0.3982	0.0029	0.0302
census	0.7544	0.4665	0.4993
cervical-B	0.7273	0.4173	0.4455
cervical-H	0.6708	0.3120	0.3323
cervical-S	0.8481	0.6446	0.6896
children-anemia	0.6982	0.8879	0.8903
chrom19	0.9212	0.8314	0.8415
chrom211%	0.4998	0.0000	0.0000
churn	0.7271	0.4071	0.4462
cjs	0.9897	0.9869	0.9869
ckd	1.0000	1.0000	1.0000
clave	0.5584	0.6690	0.6871
cll_sub_111	0.6157	0.2857	0.2897
cmc	0.5221	0.2841	0.2843
cnae-9	0.9413	0.9271	0.9282
codon_usage	0.7227	0.8801	0.8807
coil20	0.9874	0.9854	0.9855
college	0.9172	0.8338	0.8343
collins	0.7663	0.8010	0.8064
colon-tumor	0.7526	0.4057	0.5012
colposcopies-1	0.6372	0.2714	0.2743
colposcopies-2	0.8523	0.6963	0.7045
colposcopies-4	0.4821	-0.0357	0.0000
colposcopies-5	0.6238	0.2077	0.2360
colposcopies-c	0.5964	0.1920	0.1927
column-2c	0.9262	0.8524	0.8524
column-3c	0.7547	0.6804	0.6856
connect-4	0.6252	0.4345	0.4903
coupon	0.7070	0.4082	0.4139
covtype	0.8278	0.8159	0.8172
covtypeCD	0.9604	0.9202	0.9207
covtypeT	0.8560	0.7365	0.7253
crabs	1.0000	1.0000	1.0000
creditcard_trans	0.9048	0.7949	0.8082
crowdsourced	0.8558	0.8842	0.8851
cryotherapy	0.8163	0.5714	0.6325
cultivars	0.5082	0.5484	0.5534
cybersecurity	0.1956	0.0360	0.0366
cyclopentane	0.9309	0.8525	0.8619
cylinder-bands	0.7177	0.4351	0.4355
datatrieve	0.4583	-0.0833	0.0000
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Dataset	F1-macro	Kappa	MCC
dating	0.1001	-0.0008	0.0000
dbworld	1.0000	1.0000	0.9890
default	0.7075	0.3781	0.4087
dementia	1.0000	1.0000	1.0000
deposit	0.6858	0.2890	0.3475
depressed	0.5828	0.0525	0.1059
dermatology	0.9429	0.9325	0.9325
desharnais	0.5388	0.5152	0.5323
df_final	0.7711	0.6049	0.6631
DIA	0.6497	0.2821	0.2964
diabetes-100k	0.8922	0.7594	0.7823
diagnosis	1.0000	1.0000	1.0000
diamonds	1.0000	1.0000	1.0000
diamonds_all	0.7372	0.6435	0.6533
dishonest	1.0000	1.0000	1.0000
dlbcl-nih	0.3839	-0.2000	0.0000
dlbcl-stanford	0.7059	0.2857	0.4082
dna0.1%	0.4993	0.0000	0.0000
dota2	0.5610	0.1218	0.1221
drebin	0.9593	0.9178	0.9187
dropout	0.6601	0.5842	0.5949
ecoli	0.6016	0.7500	0.7628
ecoliCP-IM	0.2667	0.0000	0.0000
ecoliM	0.8150	0.6347	0.6594
ecoliMU	0.7292	0.4359	0.4543
ecoliOM	0.8514	0.6526	0.6960
ecommerce	0.2015	-0.0561	0.0000
euthyroid	0.8736	0.7330	0.7458
fakenews	0.4922	-0.0157	0.0000
fbis-wc	0.6955	0.7763	0.7801
finance	0.6184	0.2267	0.2365
financial-risk	0.5869	0.7011	0.7138
flags	0.5777	0.6815	0.7025
forest	0.8673	0.8392	0.8478
gas	0.9963	0.9956	0.9956
gastrointestinal	0.4710	0.3684	0.3938
gender	0.4856	0.0901	0.1176
german	0.6432	0.2519	0.2819
gestures	0.9088	0.8779	0.8786
gina	0.9107	0.8211	0.8215
gisette	0.9543	0.9086	0.9086
glass	0.5464	0.5962	0.6002
glass-g2	0.8091	0.6129	0.6181
glassBWFP	0.9032	0.7879	0.8062
glassBWNFP	0.7771	0.5385	0.5534
glassContainers	1.0000	1.0000	1.0000
glassNW	0.9340	0.8591	0.8677
glassTableware	1.0000	1.0000	1.0000
GlaucomaM	0.8444	0.6851	0.6889
gli_85	0.7241	0.3333	0.4472
glioma	0.8333	0.7059	0.7500
glioma-grade	0.8813	0.7590	0.7626
green	0.4553	-0.0870	0.0000
gsalc	0.9167	0.8657	0.8788
haberman	0.5793	0.1045	0.1410
hapt	0.8691	0.9524	0.9525
har	0.9735	0.9684	0.9685
harth10%	0.6654	0.8508	0.8517
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Dataset	F1-macro	Kappa	MCC
health-activity	0.2175	0.0000	0.0000
heart	0.7264	0.4392	0.4524
heart-c	0.9067	0.7964	0.8134
heart-failure	0.9700	0.9383	0.9401
heart-quantum	0.9167	0.8333	0.8333
hepatitis	0.8544	0.6667	0.7071
higher	0.0536	0.0253	0.0371
hinselmann	0.5519	0.0909	0.1021
hitters	0.8477	0.6825	0.6953
hiv1-proteasa	0.7634	0.4949	0.5219
hiva	0.6382	0.1986	0.2454
horse	0.4869	0.3455	0.4308
hotel-reservartions	0.8766	0.7511	0.7532
hr	0.4633	0.0000	0.0000
ht-sensor	0.9992	0.9988	0.9988
htru2	0.9333	0.8619	0.8664
hypothyroid	0.7272	0.9385	0.9390
immuno-therapy	0.6786	0.3571	0.3571
ionosphere	0.9671	0.9320	0.9342
iris	0.9389	0.9000	0.9061
irish	0.9800	0.9592	0.9600
isolet	0.9066	0.8985	0.8989
jm1	0.6407	0.2182	0.2635
javowels	0.9706	0.9681	0.9682
kc1-class-level-numericdefect	0.5122	0.4868	0.5046
kc1-class-level-top5percentDF	0.4231	-0.1111	0.0000
kc2	0.5859	0.0949	0.1413
kdc-4007	0.7548	0.7029	0.7044
kddcup991%	0.8243	0.9973	0.9973
kidney	0.1778	0.0000	0.0000
kidney-disease	0.9737	0.9459	0.9473
la2s-wc	0.8374	0.8264	0.8305
labor	0.8537	0.6667	0.7071
leaf	0.6857	0.6909	0.7012
led24	0.6377	0.5442	0.5473
lenses	1.0000	1.0000	1.0000
letter	0.9445	0.9423	0.9423
linkage1%	0.9755	0.9498	0.9510
loan	0.9803	0.9603	0.9605
lrs	0.6153	0.7379	0.7490
lung_discrete	0.9164	0.8400	0.8573
lymphography	0.8456	0.6147	0.6205
lymphoma2	0.6027	0.6842	0.7120
machine-failure	0.8685	0.7371	0.7371
magic04	0.8390	0.6653	0.6658
malware	1.0000	1.0000	1.0000
mammography	0.8543	0.7080	0.7086
marketing	0.7417	0.3758	0.4591
mba	0.3041	0.0000	0.0000
mental-disorders	0.9270	0.8889	0.8972
messidor	0.7083	0.3685	0.4163
meter-A	0.7241	0.3333	0.4472
meter-B	1.0000	1.0000	1.0000
meter-C	1.0000	1.0000	1.0000
meter-D	0.8599	0.7750	0.7983
mfeat-fac	0.9661	0.9611	0.9614
mfeat-fou	0.7666	0.7389	0.7401
mfeat-kar	0.9767	0.9722	0.9725
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Dataset	F1-macro	Kappa	MCC
mfeat-mor	0.7088	0.6667	0.6689
mfeat-pix	0.9715	0.9667	0.9670
mfeat-zer	0.7855	0.7611	0.7620
mice-prot	0.9913	0.9894	0.9895
milk	1.0000	1.0000	1.0000
mines	0.3761	0.1966	0.2009
mobile	0.9488	0.9430	0.9433
monks-1	0.8044	0.5985	0.6088
monks-3	0.9642	0.9285	0.9285
mushroom	1.0000	1.0000	1.0000
music	0.4742	0.3378	0.3403
MUT_ci300400a_cdk_ECFP2	0.7884	0.5764	0.5769
MUT_ci300400a_cdk_ECFP4	0.7821	0.5615	0.5643
MUT_ci300400a_cdk_ECFP6	0.7656	0.5312	0.5313
MUT_ci300400a_cdk_ESTATE	0.7620	0.5235	0.5239
MUT_ci300400a_cdk_EXTENDED	0.7696	0.5376	0.5392
MUT_ci300400a_cdk_FCFP2	0.8083	0.6164	0.6167
MUT_ci300400a_cdk_FCFP4	0.7623	0.5237	0.5245
MUT_ci300400a_cdk_FCFP6	0.7685	0.5361	0.5370
MUT_ci300400a_cdk_MACCS	0.7887	0.5760	0.5774
MUT_ci300400a_cdk_PUBCHEM	0.7863	0.5714	0.5727
MUT_ci300400a_cdk_STANDARD	0.7717	0.5433	0.5434
MUT_ci300400a_rdkit_descriptors	0.7846	0.5692	0.5692
myocardial	0.2547	0.2378	0.3669
naticusdroid	0.9687	0.9375	0.9375
nci9	0.6012	0.5962	0.6718
ncRNA10%	0.6552	0.8145	0.8185
neo	0.6742	0.1844	0.2843
new-thyroid	0.9026	0.8939	0.8985
new-thyroidT	1.0000	1.0000	1.0000
newspop	0.6622	0.3226	0.3244
NHANES_age_prediction	1.0000	1.0000	1.0000
nomao	0.9449	0.8897	0.8898
nursery	0.9339	0.9592	0.9592
obesity	0.9102	0.8948	0.8960
obs	0.9628	0.9452	0.9455
oh0-wc	0.9318	0.9206	0.9218
oh10-wc	0.7784	0.7498	0.7544
oh15-wc	0.8705	0.8510	0.8537
oh5-wc	0.8803	0.8379	0.8402
olive	0.9385	0.9343	0.9362
optdigits	0.9752	0.9703	0.9705
orlraws10P	0.8743	0.8889	0.8989
ozone1hr	0.4909	0.0000	0.0000
p53-mutants10%	0.4992	0.0000	0.0000
parkinson	0.9828	0.9655	0.9655
particle	0.9149	0.8298	0.8298
pc1	0.4813	0.0000	0.0000
pcmac	0.4956	-0.0086	0.0000
pediatric-leukemia	0.5881	0.6670	0.6814
pendigits	0.9918	0.9909	0.9909
period-10f	0.6582	0.3077	0.3162
persistence	0.7808	0.5528	0.5614
personalities	0.9740	0.9723	0.9723
pet-adoption	0.8804	0.7480	0.7604
phishing	0.9571	0.9140	0.9142
PhiUSIL10%	0.9996	0.9991	0.9991
phy	0.7062	0.4124	0.4124
Continued on next page			

Dataset	F1-macro	Kappa	MCC
pima	0.7042	0.3746	0.4063
pirvision	0.9710	0.9648	0.9648
placement	0.7768	0.5528	0.5536
plrx	0.3793	-0.1887	0.0000
polya	0.7327	0.4593	0.4651
popularity	0.4934	0.2416	0.2671
post-operative	0.7568	0.4000	0.5000
postures	0.9783	0.9733	0.9733
pred-tox_mutagen_ref-desc	0.6353	0.2647	0.2705
prestige	0.8889	0.8302	0.8462
primary-tumor	0.3259	0.3895	0.3986
processed	1.0000	1.0000	1.0000
profb	0.6327	0.2637	0.2652
promoters	0.7041	0.4000	0.4082
puc-rio	0.9920	0.9935	0.9935
pufs-1281%	0.4962	-0.0076	0.0000
pufs-6410%	0.4957	-0.0086	0.0000
pulsar	0.9356	0.8672	0.8709
raisin	0.9127	0.8222	0.8255
rejafada	1.0000	1.0000	1.0000
relathe	0.9929	0.9858	0.9859
rice	0.9719	0.9590	0.9543
rocket	0.6462	0.2924	0.2924
RT_IOT2022	0.9063	0.9929	0.9929
satimage	0.8841	0.8749	0.8757
scadi	0.6984	0.6316	0.6860
schiller	0.8000	0.5263	0.5976
sclerosis	1.0000	1.0000	1.0000
secom	0.7022	0.1722	0.3069
secondary_mushroom	1.0000	1.0000	1.0000
seeds	0.9152	0.8571	0.8660
segment	0.9689	0.9595	0.9597
segmentation	0.8522	0.7022	0.7043
segmentO	1.0000	1.0000	1.0000
seismic	0.4830	0.0000	0.0000
sens-2-gram	0.6601	0.0342	0.1320
sens-3-gram	0.6601	0.0342	0.1320
sens-4-gram	0.4648	0.0000	0.0000
sensorless	0.9990	0.9989	0.9989
shoppers	0.7861	0.5415	0.5678
sick	0.8435	0.6656	0.6842
sirtuin6	1.0000	1.0000	1.0000
smarket	0.9842	0.9680	0.9685
smk_can_187	0.5179	0.0339	0.0358
smoking	0.7680	0.5360	0.5360
soil_pollution	0.0950	-0.0496	0.0000
solar-flare	0.5427	0.6733	0.6810
sonar	0.6573	0.3000	0.3145
soybean	0.9944	0.9839	0.9841
spam-detection	0.8661	0.7315	0.7322
spambase	0.9233	0.8421	0.8466
spect	0.4444	0.0000	0.0000
spectf	0.7481	0.4948	0.4961
spectrometer	0.4568	0.5213	0.5240
squash-unstored	0.7059	0.2857	0.4082
startup	0.9885	0.9767	0.9769
steel_industry	0.8774	0.8415	0.8416
stellar	0.9701	0.9535	0.9537
Continued on next page			

Dataset	F1-macro	Kappa	MCC
stock	0.8358	0.6591	0.6705
stockb	0.9927	0.9773	0.9618
streaming	0.9816	0.9776	0.9793
stress	1.0000	1.0000	1.0000
student-depression	0.8279	0.6513	0.6557
student-habits	0.1351	-0.1188	0.0000
student-lifestyle	0.3653	0.3990	0.4169
student-weekend	0.1163	0.0240	0.0518
student-workday	0.1638	0.0190	0.0270
studentap	0.5111	0.2909	0.2909
swarm_aligned	1.0000	1.0000	1.0000
swarm_flocking	0.9996	0.9992	0.9992
swarm_grouped	1.0000	1.0000	1.0000
tae	0.6000	0.4000	0.4027
telco-churn	0.8567	0.7084	0.7131
texture	0.9830	0.9800	0.9800
theorem	0.9748	0.9494	0.9495
thoracic	0.4598	0.0000	0.0000
Thyroid_Diff	0.9365	0.8648	0.8728
tis	0.8429	0.6488	0.6834
titanic	0.7833	0.5545	0.5660
tourist	0.2894	0.4146	0.4679
trains	0.3333	0.0000	0.0000
transfusion	0.4920	-0.0141	0.0000
tuandromd	0.9746	0.9492	0.9492
turkish	0.8015	0.7333	0.7401
tvnews	0.8903	0.7781	0.7805
ur3_cobotops_grip	0.6812	0.0776	0.2009
ur3_cobotops_stop	0.5999	0.1148	0.1598
urban	0.8201	0.7719	0.7772
ustilago10%	0.4973	0.0000	0.0000
vehicle	0.7563	0.7120	0.7172
vote	0.9346	0.8608	0.8693
vowel	0.7653	0.7111	0.7167
wap-wc	0.5595	0.6960	0.7021
warpar10p	0.6055	0.6533	0.6668
warppie10p	1.0000	1.0000	1.0000
waveform	0.8245	0.7360	0.7373
weather-related	0.9815	0.9760	0.9761
weight-lift	0.9946	0.9936	0.9936
white-clover	0.3735	-0.2020	0.0000
wifi-loc	0.9950	0.9933	0.9934
wilt	0.8316	0.6626	0.6632
wine	1.0000	1.0000	1.0000
winequality-red	0.3385	0.4554	0.4594
winequality-white	0.4141	0.4335	0.4374
winnipeg10%	0.9944	0.9911	0.9911
wisc.bc	0.9443	0.8880	0.8886
yale	0.7652	0.7983	0.8051
yeast	0.4309	0.4074	0.4165
yeastCYT-POX	0.4882	0.0000	0.0000
yeastEXC	0.6366	0.2688	0.2717
yeastME1	0.7845	0.5613	0.5674
yeastME2	0.4879	0.0000	0.0000
zip	0.9497	0.9482	0.9483

Table 80: Detailed results for RF 20

Dataset	F1-macro	Kappa	MCC
abalone	0.0915	0.0578	0.0584
abalone19	0.4925	-0.0114	0.0000
accelerometer	0.6503	0.2878	0.2955
ads	0.9382	0.8741	0.8831
adult	0.7909	0.5641	0.5902
advanced-iot	0.9954	0.9994	0.9910
AID_1431	0.4708	-0.0276	0.0000
AID_1431_KlekotaRothFingerprinter	0.4240	-0.1321	0.0000
AID_1431_MACCSFingerprinter	0.4570	-0.0854	0.0000
AID_1878	0.6108	0.2295	0.2324
AID_602330	0.4867	-0.0231	0.0000
AID_652128	0.3021	-0.0434	0.0000
AID1284red	0.6270	0.2492	0.2504
AID1608Morered	0.5730	0.1513	0.1552
AID1608red	0.5526	0.0873	0.1042
AID362red	0.4708	-0.0250	0.0000
AID456red	0.4873	-0.0056	0.0000
AID687AID721red	0.5941	0.0099	0.0489
AID687red	0.5133	0.0082	0.0164
AID688red	0.4963	-0.0006	0.0000
AID721morered	1.0000	0.9999	0.9966
AID721red	0.8781	0.7262	0.7514
aids	0.8521	0.7051	0.7106
air_pollution	0.1669	0.0211	0.0253
alcohol	0.5422	0.5931	0.5964
all-aml	0.9976	0.9971	0.9925
anneal	0.8205	0.7579	0.7816
antivirus	0.9945	0.9954	0.9926
anuran-f-b	0.9066	0.7990	0.8136
anxiety	0.0591	-0.0608	0.0000
apple-quality	0.8345	0.6737	0.6714
arabidopsis1%	0.4982	0.0000	0.0000
arcene	0.7236	0.4232	0.4546
arrhythmia	0.6465	0.5710	0.5750
auction	0.8149	0.5882	0.6300
audiology	0.5704	0.6989	0.7065
audit-risk	0.9615	0.9181	0.9168
autism-adolescent	0.9183	0.8138	0.8265
autism-adult	0.9941	0.9939	0.9961
autism-child	0.9907	0.9975	1.0000
autos	0.7490	0.6721	0.6766
avila	0.8983	0.9527	0.9579
balance	0.5890	0.5151	0.5318
bank	0.7799	0.5227	0.5550
bankruptcy	0.9585	0.9231	0.9224
biodeg	0.8655	0.7352	0.7405
biomed	0.9902	0.9950	0.9928
body-perf	0.7362	0.6534	0.6542
brain-tumor	0.4951	-0.0049	0.0000
breast-cancer	0.6443	0.2908	0.3009
breast-cancer-ma	0.7769	0.4779	0.5562
breast-tissue	0.7121	0.6738	0.6869
bridges	0.6241	0.7145	0.7230
cad	1.0000	1.0000	0.9906
cancer	0.9854	0.9702	0.9661
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Dataset	F1-macro	Kappa	MCC
cancer-uae	0.3027	-0.0599	0.0000
car-insurance	0.8004	0.6059	0.6171
cardiotocography-nsp	0.8194	0.7264	0.7335
cardiovascular	0.7314	0.4695	0.4688
cargo2k	0.9967	0.9944	0.9943
cars	0.7225	0.6122	0.6307
ccds10%	0.5404	0.0478	0.0660
cervical-B	0.7313	0.3893	0.4540
cervical-H	0.7255	0.3108	0.4310
cervical-S	0.7023	0.3787	0.4006
children-anemia	0.8563	0.8920	0.8919
chrom211%	0.4967	0.0000	0.0000
churn	0.7240	0.4451	0.4433
cjs	0.9872	0.9751	0.9823
ckd	0.9978	0.9884	0.9887
clave	0.6676	0.6787	0.6741
cll_sub_111	0.5739	0.2641	0.3047
cmc	0.5891	0.3914	0.3928
cnae-9	0.9297	0.9140	0.9223
codon_usage	0.7486	0.8914	0.8922
coil20	0.9982	0.9882	1.0000
college	0.9036	0.8054	0.8010
collins	0.6735	0.7090	0.7200
colon-tumor	0.7416	0.3967	0.4988
colposcopies-1	0.6732	0.3580	0.3641
colposcopies-2	0.5622	0.1157	0.1269
colposcopies-4	0.6629	0.3175	0.3295
colposcopies-5	0.5115	0.0330	0.0332
colposcopies-c	0.5676	0.1415	0.1434
column-2c	0.8228	0.6362	0.6408
column-3c	0.8184	0.7353	0.7381
coupon	0.7034	0.4074	0.4065
covtypeCD	0.9246	0.8474	0.8495
covtypeT	0.8475	0.6576	0.6828
crabs	0.8465	0.7980	0.7998
crowdsourced	0.8547	0.8811	0.8814
cryotherapy	0.7336	0.3695	0.4732
cultivars	0.4009	0.4200	0.4191
cybersecurity	0.1900	0.0293	0.0298
cyclopentane	0.5785	0.1660	0.1671
cylinder-bands	0.7183	0.4415	0.4446
datatrieve	0.3488	-0.1467	0.0000
dating	0.1059	0.0079	0.0079
dbworld	0.9904	0.9952	1.0000
default	0.7042	0.4122	0.4102
dementia	1.0000	0.9907	0.9909
deposit	0.7794	0.5203	0.5497
depressed	0.5084	0.0159	0.0159
dermatology	0.9299	0.9344	0.9297
desharnais	0.7457	0.3058	0.4677
df_final	0.4486	0.2456	0.2500
DIA	0.6898	0.3810	0.3856
diagnosis	0.9979	0.9932	0.9987
diamonds	1.0000	0.9881	0.9918
diamonds_all	0.7341	0.6584	0.6588
dishonest	0.9971	0.9943	0.9942
dlbcl-nih	0.4647	-0.0681	0.0000
dlbcl-stanford	0.2860	0.0000	0.0000

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Dataset	F1-macro	Kappa	MCC
dna0.1%	0.4965	-0.0019	0.0000
drebin	0.9586	0.9310	0.9235
dropout	0.6936	0.6060	0.6082
ecoli	0.6934	0.7941	0.7948
ecoliCP-IM	0.9961	0.9984	0.9888
ecoliM	0.8009	0.5739	0.5990
ecoliMU	0.6755	0.3095	0.3519
ecoliOM	0.6287	0.2185	0.2459
ecommerce	0.2539	0.0009	0.0009
euthyroid	0.8394	0.6641	0.6727
fakenews	0.5089	0.0203	0.0201
fbis-wc	0.8429	0.8305	0.8310
finance	0.7048	0.4102	0.4149
financial-risk	0.6849	0.8034	0.8137
flags	0.3730	0.4448	0.4547
forest	0.8803	0.8684	0.8655
gas	0.9914	0.9853	0.9926
gastrointestinal	0.5743	0.5392	0.6198
gender	0.4510	0.1469	0.1476
german	0.6834	0.3667	0.3673
gestures	0.9166	0.8937	0.8916
gina	0.9499	0.9056	0.9005
gisette	0.9658	0.9381	0.9334
glass	0.6771	0.6152	0.6280
glass-g2	0.7094	0.3949	0.4229
glassBWFP	0.8522	0.7033	0.7037
glassBWNFP	0.8061	0.5985	0.6068
glassContainers	0.6657	0.3249	0.3330
glassNW	0.9993	1.0000	0.9940
glassTableware	0.7223	0.2783	0.3988
GlaucomaM	0.7973	0.5852	0.5947
gli.85	0.8700	0.7155	0.7407
glioma	0.8329	0.7036	0.7440
glioma-grade	0.8737	0.7542	0.7587
green	0.4551	-0.0868	0.0000
gsalc	0.8336	0.7299	0.7552
haberman	0.6030	0.2095	0.2133
hapt	0.8318	0.9402	0.9464
har	0.9853	0.9875	0.9896
health-activity	0.3664	0.0972	0.1206
heart	0.8456	0.6891	0.6970
heart-c	0.9338	0.8698	0.8757
heart-failure	0.9711	0.9463	0.9518
heart-quantum	0.8608	0.7153	0.7317
hepatitis	0.8527	0.6661	0.7046
higher	0.1497	0.0059	0.0060
hinselmann	0.4100	-0.1547	0.0000
hitters	0.9271	0.8747	0.8701
hiv1-proteasa	0.8131	0.6270	0.6336
hiva	0.5756	0.1513	0.1569
horse	0.6904	0.5180	0.5257
hotel-reservartions	0.8724	0.7541	0.7466
hr	0.4980	0.0010	0.0011
htru2	0.9061	0.8118	0.8192
hypothyroid	0.6560	0.7443	0.7694
immuno-therapy	0.7959	0.5206	0.5958
ionosphere	0.8763	0.7512	0.7510
iris	0.9312	0.8969	0.8985
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Dataset	F1-macro	Kappa	MCC
irish	0.9762	0.9590	0.9557
isolet	0.8973	0.8917	0.9000
jm1	0.6412	0.2818	0.2810
fvowels	0.9621	0.9623	0.9694
kc1-class-level-numericdefect	0.3102	0.2904	0.3002
kc1-class-level-top5percentDF	0.3992	-0.1190	0.0000
kc2	0.6726	0.3269	0.3374
kdc-4007	0.8006	0.7629	0.7600
kddcup991%	0.7394	0.9950	0.9977
kidney	0.1763	0.0000	0.0000
kidney-disease	0.9700	0.9496	0.9465
la2s-wc	0.8710	0.8600	0.8563
labor	0.8469	0.6654	0.6999
leaf	0.6189	0.6290	0.6307
led24	0.7805	0.7114	0.7145
lenses	0.5679	0.4967	0.6116
letter	0.9495	0.9442	0.9429
linkage1%	0.6644	0.0587	0.1741
loan	0.9774	0.9676	0.9629
lrs	0.5881	0.7208	0.7182
lung_discrete	0.7611	0.8390	0.8528
lymphography	0.4668	0.3559	0.3588
lymphoma2	0.6005	0.6825	0.7119
machine-failure	0.9240	0.8412	0.8511
magic04	0.8490	0.6976	0.6927
malware	0.9588	0.9137	0.9173
mammography	0.8543	0.7029	0.7052
marketing	0.7458	0.4836	0.4836
mba	0.4837	0.3420	0.3785
mental-disorders	0.8501	0.7712	0.7950
messidor	0.6552	0.3206	0.3247
meter-A	0.7430	0.3819	0.4880
meter-B	0.7535	0.5162	0.5888
meter-C	0.9578	0.9254	0.9270
meter-D	0.9529	0.9190	0.9230
mfeat-fac	0.9440	0.9368	0.9473
mfeat-fou	0.7888	0.7694	0.7654
mfeat-kar	0.9720	0.9600	0.9654
mfeat-mor	0.6810	0.6429	0.6377
mfeat-pix	0.9714	0.9734	0.9777
mfeat-zer	0.7820	0.7650	0.7666
mice-prot	0.9874	0.9809	0.9824
milk	0.9967	0.9910	0.9939
mines	0.6428	0.5601	0.5596
mobile	0.9584	0.9527	0.9559
monks-1	0.8755	0.7396	0.7579
monks-3	0.9192	0.8576	0.8477
mushroom	0.9999	0.9953	0.9947
music	0.5263	0.4061	0.4076
MUT_ci300400a_cdk_ECFP2	0.7710	0.5351	0.5420
MUT_ci300400a_cdk_ECFP4	0.7938	0.5973	0.5959
MUT_ci300400a_cdk_ECFP6	0.7460	0.4941	0.4957
MUT_ci300400a_cdk_ESTATE	0.7250	0.4456	0.4496
MUT_ci300400a_cdk_EXTENDED	0.7907	0.5890	0.5909
MUT_ci300400a_cdk_FCFP2	0.7526	0.5176	0.5161
MUT_ci300400a_cdk_FCFP4	0.7767	0.5569	0.5538
MUT_ci300400a_cdk_FCFP6	0.7636	0.5277	0.5302
MUT_ci300400a_cdk_MACCS	0.7859	0.5890	0.5877
Continued on next page			

Dataset	F1-macro	Kappa	MCC
MUT_ci300400a_cdk_PUBCHEM	0.7974	0.6097	0.6122
MUT_ci300400a_cdk_STANDARD	0.7883	0.5721	0.5753
MUT_ci300400a_rdkit_descriptors	0.7884	0.5854	0.5842
myocardial	0.3065	0.4797	0.4977
naticusdroid	0.9639	0.9340	0.9244
nci9	0.6025	0.5998	0.6697
neo	0.7352	0.4024	0.4498
new-thyroid	1.0000	1.0000	0.9914
new-thyroidT	0.7961	0.6063	0.6061
newspop	0.6594	0.3200	0.3191
NHANES_age_prediction	0.9856	0.9754	0.9852
nomao	0.9396	0.8905	0.8922
nursery	0.9372	0.9589	0.9566
obesity	0.9155	0.9070	0.9024
obs	0.9258	0.9016	0.9064
oh0-wc	0.9152	0.9028	0.9014
oh10-wc	0.8151	0.7862	0.7856
oh15-wc	0.8981	0.8725	0.8762
oh5-wc	0.8850	0.8673	0.8664
olive	0.9012	0.8883	0.8899
optdigits	0.9680	0.9670	0.9604
orlraws10P	0.9934	0.9928	1.0000
ozone1hr	0.5495	0.0960	0.0968
p53-mutants10%	0.4942	0.0000	0.0000
parkinson	0.9673	0.9470	0.9483
pc1	0.5747	0.1342	0.1502
pcmac	0.5144	0.0295	0.0296
pediatric-leukemia	0.7134	0.7068	0.7134
pendigits	0.9857	0.9818	0.9842
period-10f	0.4192	-0.1533	0.0000
persistence	0.8086	0.6115	0.6159
pet-adoption	0.9029	0.7981	0.8017
phishing	0.9538	0.8970	0.8947
PhiUSIL10%	1.0000	0.9966	0.9977
pima	0.6899	0.3837	0.3868
pirvision	0.9539	0.9261	0.9328
placement	0.7585	0.5246	0.5274
plrx	0.5266	0.0527	0.0555
polya	0.7535	0.5088	0.5094
popularity	0.4654	0.2920	0.2954
post-operative	0.3060	-0.3646	0.0000
pred-tox_mutagen_ref-desc	0.6287	0.2630	0.2640
prestige	0.8191	0.6687	0.7115
primary-tumor	0.3101	0.2972	0.3040
profb	0.6016	0.1891	0.1995
promoters	0.6726	0.3442	0.3542
pulsar	0.9146	0.8264	0.8317
raisin	0.8508	0.6859	0.6893
rejafada	0.7694	0.4188	0.5110
relathe	0.9890	0.9823	0.9846
rice	0.9812	0.9673	0.9703
rocket	0.6684	0.3445	0.3472
satimage	0.8813	0.8695	0.8747
scadi	0.6651	0.6330	0.6647
schiller	0.4352	0.0000	0.0000
sclerosis	0.9987	0.9997	0.9978
secom	0.4767	-0.0118	0.0000
seeds	0.9567	0.9290	0.9243
Continued on next page			

Dataset	F1-macro	Kappa	MCC
segment	0.9568	0.9500	0.9515
segmentation	0.8260	0.6477	0.6561
segmentO	0.9096	0.8166	0.8277
seismic	0.5911	0.1728	0.1841
sens-2-gram	0.6176	0.2180	0.2328
sens-3-gram	0.6655	0.2364	0.2941
sens-4-gram	0.6505	0.2573	0.2891
shoppers	0.8015	0.6087	0.6083
sick	0.7724	0.4996	0.5422
sirtuin6	0.9932	0.9999	0.9943
smarket	0.9951	0.9990	0.9999
smk_can_187	0.6299	0.2571	0.2590
smoking	0.7297	0.4684	0.4556
soil-pollution	0.1677	-0.0386	0.0000
solar-flare	0.6476	0.6469	0.6504
sonar	0.5990	0.1996	0.2044
soybean	0.9774	0.9638	0.9657
spam-detection	0.8689	0.7215	0.7340
spambase	0.9407	0.8883	0.8787
spect	0.5974	0.1804	0.2045
spectf	0.7827	0.5514	0.5589
spectrometer	0.4973	0.6165	0.6250
squash-unstored	0.9961	0.9902	0.9968
startup	0.9876	0.9749	0.9762
steel_industry	0.8832	0.8554	0.8504
stellar	0.9664	0.9425	0.9355
stock	0.8394	0.6861	0.6858
stockb	0.9801	0.9804	0.9863
streaming	0.9806	0.9749	0.9767
stress	0.9838	0.9715	0.9724
student-depression	0.8279	0.6571	0.6539
student-habits	0.2433	0.0048	0.0048
student-lifestyle	0.4205	0.3756	0.3825
student-weekend	0.3670	0.1983	0.2047
student-workday	0.1986	0.1065	0.1081
studentap	0.4810	0.1725	0.1729
swarm_aligned	1.0000	0.9973	0.9983
swarm_flocking	0.9963	0.9964	0.9946
swarm_grouped	0.9890	0.9909	0.9945
tae	0.5899	0.3992	0.4016
telco-churn	0.8683	0.7389	0.7456
texture	0.9711	0.9732	0.9747
theorem	0.9716	0.9510	0.9518
thoracic	0.5816	0.1573	0.1654
Thyroid_Diff	0.8622	0.7432	0.7387
tis	0.8752	0.7500	0.7464
titanic	0.6954	0.3886	0.3904
tourist	0.2889	0.4113	0.4629
trains	0.3310	0.0000	0.0000
transfusion	0.5521	0.1072	0.1140
tuandromd	0.9427	0.8965	0.8972
turkish	0.7921	0.7341	0.7348
ur3_cobotops_grip	0.6695	0.3064	0.3279
ur3_cobotops_stop	0.7192	0.4032	0.4290
urban	0.8661	0.8198	0.8285
vehicle	0.6788	0.6436	0.6459
vote	0.8986	0.8132	0.8167
vowel	0.7017	0.6633	0.6718
Continued on next page			

Dataset	F1-macro	Kappa	MCC
wap-wc	0.6905	0.8161	0.8200
warpar10p	0.7132	0.7418	0.7470
warppie10p	1.0000	1.0000	0.9999
waveform	0.8480	0.7746	0.7677
weather-related	0.9789	0.9688	0.9713
weight-lift	0.9970	0.9952	0.9957
white-clover	0.6593	0.1817	0.3149
wifi-loc	0.9825	0.9848	0.9772
wilt	0.8316	0.6277	0.6648
wine	0.9976	0.9913	0.9973
winequality-red	0.2790	0.3151	0.3138
winequality-white	0.4176	0.4043	0.4044
winnipeg10%	0.9811	0.9874	0.9824
wisc.bc	0.9849	0.9671	0.9557
yale	0.6630	0.6648	0.6768
yeast	0.4669	0.4867	0.4902
yeastCYT-POX	0.7637	0.4057	0.5026
yeastEXC	0.6041	0.1441	0.1936
yeastME1	0.7200	0.3484	0.4052
yeastME2	0.6714	0.3012	0.3331
zip	0.9332	0.9281	0.9302

Table 81: Detailed results for SVC 20

Dataset	F1-macro	Kappa	MCC
abalone	0.0905	0.0585	0.0639
abalone19	0.4990	0.0000	0.0000
accelerometer	0.4950	0.0000	0.0000
ads	0.9421	0.8764	0.8806
advanced-iot	0.9916	0.9993	0.9954
AID_1431	0.4753	0.0000	0.0000
AID_1431_KlekotaRothFingerprinter	0.4791	0.0000	0.0000
AID_1431_MACCSFingerprinter	0.4730	-0.0148	0.0000
AID_1878	0.4491	0.0000	0.0000
AID_602330	0.4867	0.0000	0.0000
AID_652128	0.3105	0.0000	0.0000
AID1284red	0.7325	0.3003	0.4225
AID1608Mored	0.4827	0.0000	0.0000
AID1608red	0.4835	0.0000	0.0000
AID362red	0.4965	0.0000	0.0000
AID456red	0.4978	0.0000	0.0000
AID721mored	0.4348	0.0000	0.0000
AID721red	0.4355	0.0000	0.0000
aids	0.8255	0.6414	0.6611
air_pollution	0.0820	0.0000	0.0000
alcohol	0.3978	0.4945	0.5272
all-aml	0.9970	0.9958	0.9917
anneal	0.9793	0.9700	0.9735
antivirus	0.9945	0.9913	0.9934
anuran-f-b	0.9986	0.9957	1.0000
anxiety	0.1022	-0.0150	0.0000
apple-quality	0.8650	0.7376	0.7346
arcene	0.6401	0.2867	0.2843
arrhythmia	0.3420	0.4064	0.4384
auction	0.7180	0.4188	0.4373
audiology	0.6435	0.7416	0.7507
audit-risk	0.9760	0.9437	0.9440
autism-adolescent	0.8010	0.6077	0.6086
autism-adult	0.9584	0.9232	0.9175
autism-child	0.8710	0.7197	0.7526
autos	0.7158	0.7258	0.7537
avila	0.9025	0.9844	0.9695
balance	0.6305	0.8462	0.8559
bankruptcy	1.0000	0.9909	0.9973
biodeg	0.8476	0.6910	0.6934
biomed	0.9474	0.8990	0.8940
body-perf	0.6966	0.5909	0.5921
brain-tumor	0.4989	0.0010	0.0010
breast-cancer	0.3909	-0.1292	0.0000
breast-cancer-ma	0.4503	-0.1005	0.0000
breast-tissue	0.6767	0.5675	0.5845
bridges	0.5326	0.3906	0.4225
cad	1.0000	0.9968	0.9986
cancer	0.9976	0.9983	0.9979
cancer-uae	0.2186	0.0000	0.0000
car-insurance	0.8011	0.6052	0.5993
cardiotocography-nsp	0.7838	0.6559	0.6654
cardiovascular	0.7412	0.4733	0.4714
cargo2k	0.9985	0.9982	1.0000
cars	0.6911	0.5852	0.5928
Continued on next page			

Dataset	F1-macro	Kappa	MCC
cervical-B	0.7871	0.5724	0.5831
cervical-H	0.7924	0.4951	0.5772
cervical-S	0.8838	0.7490	0.7710
children-anemia	0.6490	0.8013	0.8016
churn	0.6986	0.3248	0.3891
cjs	0.9935	1.0000	0.9907
ckd	0.9990	1.0000	1.0000
clave	0.5910	0.7258	0.7251
cll_sub_111	0.2844	-0.0435	0.0000
cmc	0.4932	0.2535	0.2570
cnae-9	0.9210	0.9144	0.9208
codon_usage	0.7677	0.9126	0.9109
coil20	0.9953	0.9808	0.9862
college	0.8991	0.7871	0.7970
collins	0.4679	0.5767	0.5873
colon-tumor	0.7459	0.3977	0.4976
colposcopies-1	0.6921	0.3886	0.3908
colposcopies-2	0.6513	0.2767	0.2993
colposcopies-4	0.7351	0.3247	0.4394
colposcopies-5	0.4530	0.0000	0.0000
colposcopies-c	0.8038	0.5308	0.6022
column-2c	0.7299	0.4695	0.4684
column-3c	0.7048	0.6313	0.6331
coupon	0.7078	0.4026	0.4089
covtypeCD	0.9674	0.9279	0.9195
crabs	0.9959	0.9986	0.9890
crowdsourced	0.8818	0.9116	0.9089
cryotherapy	0.8138	0.5728	0.6303
cultivars	0.4559	0.5165	0.5187
cybersecurity	0.0498	0.0000	0.0000
cyclopentane	0.5737	0.1544	0.1566
cylinder-bands	0.6913	0.3720	0.3832
datatrieve	0.3809	-0.1394	0.0000
dbworld	0.9940	0.9970	0.9953
default	0.7028	0.3815	0.4137
dementia	0.9949	1.0000	0.9958
depressed	0.4527	0.0000	0.0000
dermatology	0.9409	0.9342	0.9343
desharnais	0.4325	0.2924	0.2929
df_final	0.7512	0.6027	0.6318
DIA	0.6896	0.1881	0.3223
diagnosis	0.9926	0.9961	1.0000
diamonds	0.9634	0.9490	0.9496
diamonds_all	0.7764	0.6947	0.6921
dishonest	0.9981	0.9987	0.9977
dlbcl-nih	0.3693	0.0000	0.0000
dlbcl-stanford	0.7057	0.2846	0.4069
drebin	0.9718	0.9358	0.9407
dropout	0.6800	0.6060	0.6108
ecoli	0.6651	0.7451	0.7509
ecoliCP-IM	1.0000	1.0000	0.9981
ecoliM	0.7717	0.5399	0.5466
ecoliMU	0.6281	0.2664	0.2677
ecoliOM	0.7269	0.4645	0.4624
ecommerce	0.2147	0.0325	0.0380
euthyroid	0.7724	0.5004	0.5482
fakenews	0.5288	0.0647	0.0645
fbis-wc	0.6883	0.7488	0.7598
Continued on next page			

Dataset	F1-macro	Kappa	MCC
finance	0.9433	0.8746	0.8833
financial-risk	0.5396	0.7388	0.7400
flags	0.4194	0.6113	0.6191
forest	0.8764	0.8679	0.8671
gas	0.9852	0.9844	0.9792
gastrointestinal	0.8209	0.6676	0.7083
gender	0.3732	0.1261	0.1341
german	0.6777	0.2670	0.3468
gestures	0.8531	0.7960	0.8037
gina	0.9312	0.8587	0.8626
gisette	0.9596	0.9300	0.9391
glass	0.6967	0.5921	0.6190
glass-g2	0.5307	0.0591	0.0663
glassBWFP	0.8082	0.5513	0.6164
glassBWNFP	0.7221	0.4426	0.4465
glassContainers	0.4726	0.0000	0.0000
glassNW	0.8708	0.7364	0.7354
glassTableware	0.4877	0.0000	0.0000
GlaucomaM	0.6789	0.3675	0.3657
gli_85	0.5735	0.1420	0.1488
glioma	0.5333	0.4429	0.5729
glioma-grade	0.8822	0.7581	0.7693
green	0.6098	0.2098	0.2159
gsalc	0.8599	0.7263	0.7704
haberman	0.6052	0.1870	0.2061
hapt	0.8431	0.9520	0.9458
har	0.9706	0.9720	0.9689
health-activity	0.2158	0.0000	0.0000
heart	0.8855	0.7534	0.7800
heart-c	0.9028	0.7947	0.8059
heart-failure	0.9430	0.8989	0.9073
heart-quantum	0.8786	0.7449	0.7558
hepatitis	0.4995	0.0000	0.0000
higher	0.0453	-0.0372	0.0000
hinselmann	0.4427	0.0000	0.0000
hitters	0.9311	0.8657	0.8722
hiv1-proteasa	0.7852	0.5529	0.5765
hiva	0.4883	-0.0084	0.0000
horse	0.2221	-0.0448	0.0000
hotel-reservartions	0.8481	0.7123	0.7167
hr	0.4626	-0.0069	0.0000
htru2	0.9247	0.8464	0.8481
hypothyroid	0.5957	0.6489	0.6796
immuno-therapy	0.4009	-0.1729	0.0000
ionosphere	0.9304	0.8680	0.8608
iris	0.9944	0.9973	0.9990
irish	0.9989	0.9969	1.0000
isolet	0.9497	0.9413	0.9400
jm1	0.6310	0.0434	0.1350
javowels	0.9780	0.9885	0.9808
kc1-class-level-numericdefect	0.1618	0.0000	0.0000
kc1-class-level-top5percentDF	0.4776	0.0000	0.0000
kc2	0.5998	0.2013	0.2080
kidney	0.1780	0.0000	0.0000
kidney-disease	0.9460	0.8915	0.8968
labor	1.0000	0.9967	0.9975
leaf	0.6899	0.6584	0.6740
led24	0.6191	0.5981	0.6053
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Dataset	F1-macro	Kappa	MCC
lenses	0.5688	0.4979	0.6081
letter	0.9482	0.9354	0.9412
linkage1%	0.8759	0.7106	0.7272
loan	0.9169	0.8461	0.8468
lrs	0.6254	0.8171	0.8180
lung_discrete	0.7569	0.8388	0.8510
lymphography	0.4948	0.4493	0.4570
lymphoma2	0.9997	0.9927	0.9999
machine-failure	0.8978	0.8043	0.8061
magic04	0.8279	0.6586	0.6634
malware	0.9905	1.0000	0.9974
mammography	0.8679	0.7304	0.7410
marketing	0.6754	0.3330	0.3553
mba	0.3029	0.0000	0.0000
mental-disorders	0.8694	0.7780	0.7965
messidor	0.6782	0.3561	0.3586
meter-A	0.8865	0.7456	0.7717
meter-B	0.8012	0.6553	0.6504
meter-C	0.9288	0.9199	0.9249
meter-D	0.8697	0.8478	0.8496
mfeat-fac	0.9666	0.9669	0.9768
mfeat-fou	0.8495	0.8269	0.8273
mfeat-kar	0.9814	0.9784	0.9721
mfeat-mor	0.7272	0.7117	0.7232
mfeat-pix	0.9810	0.9757	0.9795
mfeat-zer	0.8435	0.8487	0.8567
mice-prot	0.9940	0.9904	0.9936
milk	1.0000	0.9927	1.0000
mines	0.5997	0.5210	0.5183
mobile	0.8242	0.8138	0.8092
monks-1	0.8740	0.7450	0.7671
monks-3	0.9594	0.9177	0.9229
mushroom	0.9950	0.9939	0.9941
music	0.5405	0.4078	0.4226
MUT_ci300400a_cdk_ECFP2	0.7750	0.5463	0.5520
MUT_ci300400a_cdk_ECFP4	0.7770	0.5616	0.5583
MUT_ci300400a_cdk_ECFP6	0.7429	0.4953	0.4917
MUT_ci300400a_cdk_ESTATE	0.7243	0.4575	0.4585
MUT_ci300400a_cdk_FCFP2	0.8149	0.6296	0.6319
MUT_ci300400a_cdk_FCFP4	0.7792	0.5624	0.5606
MUT_ci300400a_cdk_FCFP6	0.7609	0.5448	0.5365
MUT_ci300400a_cdk_MACCS	0.7779	0.5603	0.5602
MUT_ci300400a_cdk_PUBCHEM	0.7820	0.5693	0.5663
MUT_ci300400a_rdkit_descriptors	0.7923	0.5959	0.5901
myocardial	0.2929	0.3393	0.4524
naticusdroid	0.9517	0.9163	0.9144
nci9	0.7935	0.8017	0.8310
neo	0.6833	0.1863	0.2906
new-thyroid	0.9273	0.8903	0.8964
new-thyroidT	0.9183	0.8246	0.8401
NHANES_age_prediction	0.9413	0.8798	0.8749
nursery	0.9733	0.9898	0.9908
obesity	0.8793	0.8657	0.8700
obs	0.9836	0.9763	0.9790
oh0-wc	0.6414	0.6393	0.6491
oh10-wc	0.6166	0.6105	0.6116
oh15-wc	0.5151	0.5293	0.5317
oh5-wc	0.7214	0.6602	0.6646
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Dataset	F1-macro	Kappa	MCC
olive	0.8929	0.8833	0.8943
optdigits	0.9778	0.9861	0.9738
orlraws10P	0.9978	0.9926	0.9968
ozone1hr	0.4882	0.0000	0.0000
p53-mutants10%	0.4998	0.0000	0.0000
parkinson	0.9437	0.8944	0.8918
pc1	0.4825	0.0000	0.0000
pcmac	0.5327	0.0379	0.0658
pendigits	0.9855	0.9891	0.9840
period-10f	0.5917	0.1812	0.1869
persistence	0.7617	0.5180	0.5338
pet-adoption	0.8522	0.7193	0.7255
phishing	0.9221	0.8432	0.8445
pima	0.7004	0.3716	0.4058
pirvision	0.9888	0.9669	0.9792
placement	0.7792	0.5724	0.5697
plrx	0.4191	0.0000	0.0000
polya	0.7565	0.5119	0.5214
post-operative	0.3993	0.0000	0.0000
pred-tox_mutagen_ref-desc	0.6582	0.2933	0.3137
prestige	0.8810	0.8273	0.8381
primary-tumor	0.4018	0.5495	0.5612
profb	0.4012	0.0000	0.0000
promoters	0.7172	0.2850	0.4061
pulsar	0.9221	0.8504	0.8620
raisin	0.8932	0.7798	0.7786
rejafada	0.4884	0.0000	0.0000
relathe	0.9783	0.9581	0.9525
rice	0.9828	0.9624	0.9689
rocket	0.5843	0.1696	0.1711
satimage	0.8898	0.8814	0.8812
scadi	0.6573	0.6308	0.6686
schiller	0.4340	0.0000	0.0000
sclerosis	0.9624	0.9263	0.9172
secom	0.4780	0.0000	0.0000
seeds	0.9585	0.9262	0.9345
segment	0.9330	0.9203	0.9148
segmentation	0.8153	0.6214	0.6272
segmentO	0.9856	0.9742	0.9758
seismic	0.5806	0.1331	0.1478
sens-2-gram	0.4623	0.0000	0.0000
sens-3-gram	0.4635	0.0000	0.0000
shoppers	0.7222	0.3885	0.4372
sick	0.7125	0.3931	0.4176
sirtuin6	0.9059	0.7997	0.8174
smarket	0.9361	0.8683	0.8695
smk.can_187	0.5732	0.1464	0.1491
smoking	0.7315	0.4697	0.4626
soil_pollution	0.0689	0.0000	0.0000
solar-flare	0.5919	0.6739	0.6774
sonar	0.5481	0.0986	0.1005
soybean	0.9579	0.9506	0.9504
spam-detection	0.8325	0.6643	0.6739
spambase	0.8821	0.7708	0.7735
spect	0.6597	0.3241	0.3248
spectf	0.7792	0.5508	0.5596
spectrometer	0.3968	0.5176	0.5242
squash-unstored	0.9940	0.9954	0.9993
Continued on next page			

Dataset	F1-macro	Kappa	MCC
startup	0.9860	0.9913	0.9959
steel_industry	0.8228	0.7720	0.7740
stellar	0.9455	0.9510	0.9489
stock	0.7429	0.4234	0.4792
stockb	0.9895	0.9780	0.9793
streaming	0.8880	0.7710	0.7762
stress	1.0000	0.9993	0.9997
student-habits	0.1094	0.0000	0.0000
student-lifestyle	0.3425	0.3722	0.3795
student-weekend	0.1645	0.0815	0.1203
student-workday	0.1647	0.0000	0.0000
studentap	0.4834	0.1716	0.1783
tae	0.4689	0.1999	0.2012
telco-churn	0.8532	0.7074	0.7150
texture	0.9960	0.9873	0.9897
theorem	0.9896	1.0000	0.9993
thoracic	0.4586	0.0000	0.0000
Thyroid_Diff	0.9349	0.8622	0.8754
titanic	0.7833	0.5559	0.5639
tourist	0.2884	0.4148	0.4646
trains	0.0000	-1.0000	0.0000
transfusion	0.5568	0.1234	0.1221
tuandromd	0.9722	0.9438	0.9468
turkish	0.8158	0.7651	0.7642
ur3_cobotops_grip	0.4905	0.0000	0.0000
ur3_cobotops_stop	0.4877	0.0000	0.0000
urban	0.8175	0.7670	0.7742
vehicle	0.7648	0.7182	0.7146
vote	0.9254	0.8581	0.8611
vowel	0.6323	0.5788	0.5826
wap-wc	0.4743	0.6437	0.6508
warpar10p	0.8247	0.8293	0.8322
warppie10p	0.9927	0.9951	0.9976
waveform	0.8470	0.7709	0.7737
weather-related	0.9641	0.9624	0.9573
white-clover	0.6217	0.2497	0.2502
wifi-loc	0.9885	0.9839	0.9851
wilt	0.8555	0.6487	0.6937
wine	0.9983	0.9914	1.0000
winequality-red	0.2937	0.3669	0.3737
winequality-white	0.3320	0.3565	0.3697
wisc.bc	0.9829	0.9652	0.9607
yale	0.3692	0.3961	0.4170
yeast	0.3934	0.4021	0.4066
yeastCYT-POX	0.8968	0.7853	0.8098
yeastEXC	0.6334	0.2691	0.2710
yeastME1	0.4964	0.0000	0.0000
yeastME2	0.4885	0.0000	0.0000
zip	0.9425	0.9358	0.9417

Table 82: Detailed results for RotationForest 20

Dataset	F1-macro	Kappa	MCC
abalone	0.0994	0.0592	0.0602
abalone19	0.4888	-0.0112	0.0000
accelerometer	0.6422	0.2737	0.2816
ads	0.9225	0.8454	0.8435
advanced-iot	0.9993	0.9995	0.9906
AID_1431	0.4713	-0.0147	0.0000
AID_1431_KlekotaRothFingerprinter	0.4095	-0.1410	0.0000
AID_1431_MACCSFingerprinter	0.4508	-0.0957	0.0000
AID_1878	0.5839	0.1542	0.1612
AID_602330	0.4797	-0.0332	0.0000
AID_652128	0.3027	-0.0391	0.0000
AID1284red	0.6040	0.2044	0.2067
AID1608Morered	0.5237	0.0527	0.0531
AID1608red	0.5539	0.0862	0.1036
AID362red	0.4663	-0.0250	0.0000
AID456red	0.4889	-0.0056	0.0000
AID721morered	0.9944	0.9974	1.0000
AID721red	0.7922	0.5222	0.5948
aids	0.8407	0.6748	0.6797
air_pollution	0.1664	0.0212	0.0245
alcohol	0.6537	0.6485	0.6462
all-aml	0.9920	1.0000	0.9958
anneal	0.8116	0.7363	0.7660
antivirus	0.9963	0.9985	0.9911
anuran-f-b	0.9578	0.9261	0.9239
anxiety	0.0829	-0.0316	0.0000
apple-quality	0.8317	0.6815	0.6777
arcene	0.7296	0.4214	0.4536
arrhythmia	0.6385	0.5796	0.5795
auction	0.8357	0.6421	0.6817
audiology	0.5058	0.6467	0.6527
audit-risk	0.9570	0.9195	0.9202
autism-adolescent	0.9118	0.8094	0.8263
autism-adult	0.9998	0.9940	0.9973
autism-child	0.9984	0.9980	0.9941
autos	0.8052	0.7358	0.7420
avila	0.8865	0.9503	0.9452
balance	0.5845	0.4881	0.5157
bankruptcy	0.9977	1.0000	0.9972
biodeg	0.8832	0.7709	0.7794
biomed	0.9563	0.8948	0.8936
body-perf	0.7278	0.6353	0.6405
brain-tumor	0.5083	0.0129	0.0130
breast-cancer	0.5231	0.0420	0.0451
breast-cancer-ma	0.7321	0.4558	0.4657
breast-tissue	0.5960	0.5592	0.5651
bridges	0.4365	0.4598	0.4693
cad	0.9568	0.9253	0.9279
cancer	0.9996	0.9964	0.9953
cancer-uae	0.3051	-0.0646	0.0000
car-insurance	0.8042	0.6035	0.6054
cardiotocography-nsp	0.8165	0.7147	0.7210
cardiovascular	0.7284	0.4657	0.4755
cargo2k	0.9980	0.9996	0.9987
cars	0.6353	0.5597	0.5655
Continued on next page			

Dataset	F1-macro	Kappa	MCC
cervical-B	0.7359	0.3915	0.4547
cervical-H	0.7262	0.3111	0.4258
cervical-S	0.7032	0.3788	0.3991
children-anemia	0.8492	0.8969	0.8918
chrom211%	0.5016	0.0000	0.0000
churn	0.7274	0.4564	0.4573
cjs	0.9874	0.9781	0.9793
ckd	0.9961	0.9965	0.9958
clave	0.6688	0.6767	0.6784
cll_sub_111	0.8018	0.5974	0.6032
cmc	0.5903	0.3794	0.3799
cnae-9	0.9220	0.9108	0.9041
codon_usage	0.7512	0.8886	0.8982
coil20	1.0000	0.9928	0.9979
college	0.8987	0.8002	0.8064
collins	0.7201	0.7319	0.7395
colon-tumor	0.6557	0.1821	0.3132
colposcopies-1	0.6953	0.3880	0.3890
colposcopies-2	0.6933	0.3667	0.3875
colposcopies-4	0.5658	0.1363	0.1362
colposcopies-5	0.5712	0.1384	0.1446
colposcopies-c	0.5498	0.0963	0.0986
column-2c	0.8167	0.6407	0.6404
column-3c	0.7599	0.6832	0.6871
coupon	0.7096	0.4303	0.4268
covtypeCD	0.9259	0.8420	0.8565
covtypeT	0.8423	0.6524	0.6873
crabs	0.8036	0.7307	0.7366
crowdsourced	0.8514	0.8784	0.8773
cryotherapy	0.7419	0.3708	0.4762
cultivars	0.4028	0.4175	0.4193
cybersecurity	0.1949	0.0367	0.0369
cyclopentane	0.6606	0.3053	0.3149
cylinder-bands	0.6977	0.3965	0.4010
datatrieve	0.3478	-0.1453	0.0000
dbworld	0.9929	0.9928	0.9913
default	0.7152	0.3873	0.4189
dementia	0.9981	0.9953	0.9975
depressed	0.4625	-0.0652	0.0000
dermatology	0.9358	0.9330	0.9230
desharnais	0.5463	0.1658	0.2217
df_final	0.6043	0.3482	0.3930
DIA	0.6899	0.3798	0.3868
diagnosis	0.9905	1.0000	0.9989
diamonds	0.9973	0.9911	0.9953
diamonds_all	0.7711	0.6784	0.6876
dishonest	0.9950	0.9892	1.0000
dlbcl-nih	0.4469	-0.0988	0.0000
dlbcl-stanford	0.8264	0.6106	0.6661
drebin	0.9678	0.9380	0.9321
dropout	0.6959	0.5982	0.5985
ecoli	0.6410	0.7489	0.7568
ecoliCP-IM	1.0000	0.9947	0.9963
ecoliM	0.7991	0.5769	0.6021
ecoliMU	0.6618	0.2656	0.3126
ecoliOM	0.6097	0.1738	0.2099
ecommerce	0.2683	0.0293	0.0297
euthyroid	0.8417	0.6739	0.6844
Continued on next page			

Dataset	F1-macro	Kappa	MCC
fakenews	0.5051	0.0151	0.0152
fbis-wc	0.8285	0.8236	0.8295
finance	0.7062	0.4099	0.4134
financial-risk	0.6745	0.8162	0.8154
flags	0.3759	0.4394	0.4570
forest	0.9005	0.8949	0.8959
gas	0.9917	0.9934	0.9889
gastrointestinal	0.6143	0.6629	0.7174
gender	0.4643	0.1755	0.1758
german	0.6573	0.3108	0.3155
gestures	0.9118	0.8852	0.8845
gina	0.9465	0.8957	0.9011
gisette	0.9623	0.9183	0.9193
glass	0.7089	0.6025	0.6254
glass-g2	0.8581	0.7335	0.7321
glassBWFP	0.8968	0.7921	0.7968
glassBWNFP	0.7650	0.5133	0.5384
glassContainers	0.6647	0.3238	0.3348
glassNW	0.9999	0.9999	0.9951
glassTableware	0.7202	0.2774	0.4035
GlaucomaM	0.7345	0.4717	0.4752
gli_85	0.6648	0.3328	0.3329
glioma	0.8305	0.7033	0.7468
glioma-grade	0.8631	0.7270	0.7302
green	0.4524	-0.0868	0.0000
gsalc	0.8260	0.7289	0.7536
haberman	0.6898	0.3577	0.3817
hapt	0.8620	0.9403	0.9463
har	0.9870	0.9895	0.9891
health-activity	0.3748	0.1375	0.1709
heart	0.7627	0.5280	0.5321
heart-c	0.9292	0.8652	0.8733
heart-failure	0.9755	0.9450	0.9517
heart-quantum	0.9079	0.8008	0.8078
hepatitis	0.8508	0.6668	0.7100
higher	0.0832	-0.0890	0.0000
hinselmann	0.4400	0.0000	0.0000
hitters	0.9329	0.8773	0.8782
hiv1-proteasa	0.8271	0.6427	0.6565
hiva	0.5578	0.1059	0.1110
horse	0.6741	0.4772	0.4819
hotel-reservartions	0.8446	0.7153	0.7173
hr	0.5229	0.0521	0.0528
htru2	0.9130	0.8132	0.8190
hypothyroid	0.6518	0.7391	0.7549
immuno-therapy	0.7959	0.5265	0.5962
ionosphere	0.8752	0.7454	0.7532
iris	0.9302	0.8994	0.8993
irish	0.9816	0.9573	0.9595
isolet	0.8904	0.8805	0.8814
jm1	0.6428	0.2789	0.2795
fvowels	0.9623	0.9663	0.9626
kc1-class-level-numericdefect	0.2965	0.2262	0.2294
kc1-class-level-top5percentDF	0.4195	-0.1105	0.0000
kc2	0.6557	0.2990	0.3155
kdc-4007	0.7887	0.7501	0.7519
kidney	0.1783	0.0000	0.0000
kidney-disease	0.9623	0.9407	0.9463
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Dataset	F1-macro	Kappa	MCC
la2s-wc	0.8643	0.8521	0.8501
labor	0.8508	0.6648	0.6997
leaf	0.7263	0.7174	0.7274
led24	0.6681	0.5966	0.6029
lenses	0.5735	0.4985	0.6151
letter	0.9399	0.9377	0.9361
linkage1%	0.8778	0.7186	0.7311
loan	0.9794	0.9731	0.9750
lrs	0.6383	0.7141	0.7215
lung_discrete	1.0000	0.9969	0.9985
lymphography	0.7292	0.5140	0.5283
lymphoma2	0.6035	0.6852	0.7083
machine-failure	0.9202	0.8411	0.8483
magic04	0.8415	0.6909	0.6915
malware	0.9924	0.9989	0.9909
mammography	0.8497	0.7111	0.7064
marketing	0.7649	0.5231	0.5295
mba	0.4786	0.3260	0.3674
mental-disorders	0.9299	0.8901	0.8968
messidor	0.6957	0.4018	0.4029
meter-A	0.7514	0.3874	0.4879
meter-B	0.7533	0.5142	0.5910
meter-C	0.9242	0.9237	0.9227
meter-D	0.9572	0.9266	0.9194
mfeat-fac	0.9530	0.9316	0.9422
mfeat-fou	0.8068	0.7885	0.7866
mfeat-kar	0.9731	0.9690	0.9640
mfeat-mor	0.6827	0.6460	0.6523
mfeat-pix	0.9726	0.9743	0.9770
mfeat-zer	0.7605	0.7333	0.7352
mice-prot	0.9827	0.9812	0.9757
milk	0.9916	1.0000	0.9924
mines	0.6448	0.5552	0.5637
mobile	0.9535	0.9458	0.9472
monks-1	0.8646	0.7093	0.7326
monks-3	0.9425	0.8888	0.8863
mushroom	0.9946	0.9916	0.9987
music	0.5421	0.4147	0.4181
MUT_ci300400a_cdk_ECFP2	0.7656	0.5329	0.5373
MUT_ci300400a_cdk_ECFP4	0.7954	0.5875	0.5910
MUT_ci300400a_cdk_ECFP6	0.7608	0.5315	0.5319
MUT_ci300400a_cdk_ESTATE	0.7246	0.4514	0.4587
MUT_ci300400a_cdk_EXTENDED	0.7962	0.6027	0.6027
MUT_ci300400a_cdk_FCFP2	0.7669	0.5439	0.5437
MUT_ci300400a_cdk_FCFP4	0.7687	0.5438	0.5489
MUT_ci300400a_cdk_FCFP6	0.7779	0.5507	0.5590
MUT_ci300400a_cdk_MACCS	0.7856	0.5772	0.5781
MUT_ci300400a_cdk_PUBCHEM	0.8075	0.6272	0.6300
MUT_ci300400a_cdk_STANDARD	0.7895	0.5801	0.5845
MUT_ci300400a_rdkit_descriptors	0.7879	0.5775	0.5863
myocardial	0.3083	0.4948	0.5146
naticusdroid	0.9634	0.9315	0.9305
nci9	0.7872	0.7938	0.8284
neo	0.6796	0.1894	0.2896
new-thyroid	0.9455	0.8969	0.8955
new-thyroidT	0.8617	0.6930	0.7265
NHANES_age_prediction	0.9843	0.9801	0.9788
nursery	0.9256	0.9544	0.9509
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Dataset	F1-macro	Kappa	MCC
obesity	0.9284	0.9059	0.9176
obs	0.9313	0.9021	0.9087
oh0-wc	0.9226	0.9046	0.9081
oh10-wc	0.7943	0.7756	0.7751
oh15-wc	0.9027	0.8755	0.8789
oh5-wc	0.8880	0.8556	0.8594
olive	0.9296	0.9292	0.9376
optdigits	0.9675	0.9681	0.9615
orlraws10P	0.9999	0.9913	0.9993
ozone1hr	0.4771	-0.0388	0.0000
p53-mutants10%	0.4958	0.0000	0.0000
parkinson	0.9786	0.9624	0.9634
pc1	0.5805	0.1341	0.1499
pcmac	0.4896	-0.0210	0.0000
pediatric-leukemia	0.7085	0.7079	0.7141
pendigits	0.9847	0.9853	0.9842
period-10f	0.5008	0.0000	0.0000
persistency	0.8026	0.6165	0.6181
pet-adoption	0.8787	0.7654	0.7726
phishing	0.9341	0.8571	0.8669
pima	0.7317	0.4601	0.4654
pirvision	0.9557	0.9295	0.9345
placement	0.7669	0.5437	0.5445
plrx	0.5244	0.0526	0.0551
polya	0.7432	0.4900	0.4871
post-operative	0.3047	-0.3612	0.0000
pred-tox_mutagen_ref-desc	0.7021	0.4094	0.4140
prestige	0.8896	0.8270	0.8464
primary-tumor	0.3108	0.3003	0.3045
profb	0.5602	0.1150	0.1164
promoters	0.9962	0.9906	0.9920
pulsar	0.9227	0.8432	0.8440
raisin	0.8465	0.7025	0.7087
rejafada	0.7504	0.3637	0.4693
relathe	0.9891	0.9674	0.9668
rice	0.9827	0.9734	0.9669
rocket	0.6794	0.3519	0.3558
satimage	0.8901	0.8813	0.8821
scadi	0.6578	0.6252	0.6653
schiller	0.8352	0.6111	0.6596
sclerosis	0.9959	0.9941	0.9933
secom	0.4812	0.0000	0.0000
seeds	0.9545	0.9233	0.9332
segment	0.9576	0.9471	0.9512
segmentation	0.8172	0.6274	0.6378
segmentO	0.9007	0.7849	0.8106
seismic	0.5787	0.1440	0.1581
sens-2-gram	0.5742	0.1193	0.1413
sens-3-gram	0.6546	0.1978	0.2764
sens-4-gram	0.6410	0.2760	0.2888
shoppers	0.8026	0.6076	0.6061
sick	0.7838	0.5214	0.5604
sirtuin6	0.9922	0.9947	0.9926
smarket	0.9898	0.9808	0.9761
smk.can_187	0.5193	0.0444	0.0449
smoking	0.7348	0.4580	0.4695
soil_pollution	0.1822	-0.0217	0.0000
solar-flare	0.6446	0.6455	0.6536
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Dataset	F1-macro	Kappa	MCC
sonar	0.5999	0.1999	0.2031
soybean	0.9723	0.9648	0.9658
spam-detection	0.8738	0.7302	0.7466
spambase	0.9479	0.8965	0.8946
spect	0.7006	0.3622	0.4073
spectf	0.6892	0.3888	0.3874
spectrometer	0.5174	0.6545	0.6644
squash-unstored	0.8305	0.6163	0.6623
startup	0.9816	0.9720	0.9745
steel_industry	0.8851	0.8581	0.8546
stellar	0.9637	0.9414	0.9687
stock	0.8509	0.7057	0.7104
stockb	0.9848	0.9807	0.9817
streaming	0.9828	0.9716	0.9714
stress	0.9803	0.9793	0.9734
student-habits	0.2465	0.0097	0.0097
student-lifestyle	0.4076	0.3851	0.3937
student-weekend	0.3792	0.2005	0.2068
student-workday	0.2068	0.1466	0.1516
studentap	0.4810	0.1718	0.1741
swarm_aligned	0.9886	0.9870	1.0000
swarm_flocking	0.9995	0.9921	1.0000
tae	0.5928	0.3981	0.4018
telco-churn	0.8716	0.7427	0.7463
texture	0.9812	0.9782	0.9753
theorem	0.9816	0.9650	0.9668
thoracic	0.5948	0.1832	0.1919
Thyroid_Diff	0.8686	0.7440	0.7377
tis	0.8709	0.7494	0.7504
titanic	0.6929	0.3864	0.3897
tourist	0.2900	0.4152	0.4680
trains	0.3317	0.0000	0.0000
transfusion	0.5415	0.0789	0.0828
tuandromd	0.9540	0.9191	0.9229
turkish	0.8212	0.7610	0.7661
ur3_cobotops_grip	0.6781	0.3257	0.3496
ur3_cobotops_stop	0.7495	0.4621	0.4865
urban	0.8872	0.8535	0.8572
vehicle	0.6947	0.6611	0.6612
vote	0.9293	0.8570	0.8576
vowel	0.6918	0.6377	0.6513
wap-wc	0.6746	0.7976	0.7956
warpar10p	0.7183	0.7346	0.7530
warppie10p	0.9917	1.0000	0.9906
waveform	0.8433	0.7814	0.7754
weather-related	0.9688	0.9675	0.9634
weight-lift	1.0000	0.9960	0.9934
white-clover	0.7507	0.3980	0.5014
wifi-loc	0.9897	0.9856	0.9839
wilt	0.8368	0.6547	0.6742
wine	0.9953	0.9963	0.9976
winequality-red	0.3837	0.3207	0.3289
winequality-white	0.4125	0.4060	0.4130
wisc.bc	0.9779	0.9601	0.9655
yale	0.6559	0.6628	0.6788
yeast	0.3777	0.4544	0.4573
yeastCYT-POX	0.7643	0.4095	0.5004
yeastEXC	0.6198	0.1628	0.2096
Continued on next page			

Dataset	F1-macro	Kappa	MCC
yeastME1	0.7093	0.3259	0.3890
yeastME2	0.6513	0.2909	0.3014
zip	0.9333	0.9347	0.9253

Table 83: Detailed results for BalancedRF 20

Dataset	F1-macro	Kappa	MCC
abalone	0.1030	0.0432	0.0443
abalone19	0.5250	0.0070	0.0225
accelerometer	0.6303	0.0913	0.1804
ads	0.7587	0.4541	0.5221
advanced-iot	0.9996	0.9960	0.9923
AID.1431	0.4700	-0.0538	0.0000
AID.1431_KlekotaRothFingerprinter	0.4484	-0.0820	0.0000
AID.1431_MACCSFingerprinter	0.4217	-0.1290	0.0000
AID.1878	0.5501	0.0960	0.0974
AID.602330	0.5231	0.0298	0.0395
AID.652128	0.4412	0.0854	0.1136
AID1284red	0.6605	0.3027	0.3233
AID1608Morered	0.5777	0.0930	0.1389
AID1608red	0.5390	0.0356	0.0619
AID362red	0.4687	-0.0100	0.0000
AID456red	0.4498	-0.0059	0.0000
AID721morered	0.5920	0.1805	0.1881
AID721red	0.8026	0.5263	0.5954
aids	0.8243	0.6549	0.6566
air_pollution	0.1395	-0.0057	0.0000
alcohol	0.5822	0.5194	0.5417
all-aml	0.9919	0.9949	0.9982
anneal	0.7223	0.4799	0.5721
antivirus	0.9905	0.9949	0.9990
anuran-f-b	0.6661	0.0811	0.2048
anxiety	0.0914	-0.0218	0.0000
apple-quality	0.8447	0.6853	0.6879
arcene	0.6911	0.3394	0.3835
arrhythmia	0.6516	0.4559	0.5008
auction	0.7709	0.4576	0.5289
audiology	0.3757	0.3632	0.3758
audit-risk	0.9277	0.8393	0.8510
autism-adolescent	0.9094	0.8133	0.8194
autism-adult	0.9851	0.9536	0.9616
autism-child	0.9598	0.9326	0.9309
autos	0.8825	0.8703	0.8730
avila	0.8044	0.8214	0.8347
balance	0.5932	0.5164	0.5437
bankruptcy	0.8620	0.6823	0.7236
biodeg	0.8218	0.6553	0.6560
biomed	0.9105	0.8063	0.8177
body-perf	0.7252	0.6286	0.6319
brain-tumor	0.5048	0.0148	0.0147
breast-cancer	0.5219	0.0419	0.0451
breast-cancer-ma	0.6275	0.2393	0.2604
breast-tissue	0.7077	0.6699	0.6867
bridges	0.4097	0.2684	0.3231
cad	0.9941	0.9955	0.9978
cancer	0.9329	0.8777	0.8732
cancer-uae	0.3184	-0.0416	0.0000
car-insurance	0.7590	0.5184	0.5272
cardiotocography-nsp	0.7673	0.6338	0.6557
cardiovascular	0.7391	0.4689	0.4650
cargo2k	0.9938	0.9963	0.9834
cars	0.7513	0.6249	0.6516
Continued on next page			

Dataset	F1-macro	Kappa	MCC
cervical-B	0.6569	0.1937	0.2880
cervical-H	0.6965	0.2129	0.3416
cervical-S	0.6278	0.2002	0.2456
children-anemia	0.8012	0.8530	0.8645
chrom211%	0.4877	-0.0015	0.0000
churn	0.6944	0.3730	0.3878
cjs	0.9267	0.9158	0.9128
ckd	1.0000	0.9983	0.9962
clave	0.6267	0.5962	0.6013
cll_sub_111	0.7051	0.4910	0.5056
cmc	0.5283	0.3084	0.3069
cnae-9	0.9003	0.8797	0.8869
codon_usage	0.7120	0.8204	0.8224
coil20	0.9973	0.9864	0.9917
college	0.8907	0.7785	0.7795
collins	0.6980	0.6932	0.6939
colon-tumor	0.7469	0.3994	0.4971
colposcopies-1	0.6573	0.3286	0.3276
colposcopies-2	0.6618	0.3271	0.3282
colposcopies-4	0.5698	0.1369	0.1369
colposcopies-5	0.5433	0.0816	0.0883
colposcopies-c	0.6874	0.3694	0.3893
column-2c	0.7914	0.5759	0.5844
column-3c	0.7737	0.6883	0.6946
coupon	0.6847	0.3800	0.3787
covtypeCD	0.8110	0.5686	0.6255
covtypeT	0.7427	0.3829	0.4701
crabs	0.8577	0.7983	0.8054
crowdsourced	0.7331	0.7503	0.7678
cryotherapy	0.7346	0.3691	0.4796
cultivars	0.4512	0.4805	0.4872
cybersecurity	0.1919	0.0320	0.0322
cyclopentane	0.7304	0.4661	0.4736
cylinder-bands	0.7498	0.4864	0.4970
datatrieve	0.3478	-0.1469	0.0000
dbworld	0.9939	0.9950	0.9914
default	0.7185	0.3910	0.4146
dementia	0.9940	0.9968	0.9996
depressed	0.5204	0.0366	0.0389
dermatology	0.9406	0.9310	0.9311
desharnais	0.5451	0.1659	0.2229
df_final	0.7703	0.6057	0.6378
DIA	0.6861	0.3750	0.3777
diagnosis	0.8245	0.6531	0.6560
diamonds	0.9778	0.9745	0.9792
diamonds_all	0.7740	0.6878	0.6827
dishonest	0.9922	1.0000	1.0000
dlbcl-nih	0.4262	-0.1338	0.0000
dlbcl-stanford	0.8276	0.6139	0.6667
drebin	0.9005	0.8019	0.8147
dropout	0.6767	0.5652	0.5635
ecoli	0.6720	0.7182	0.7265
ecoliCP-IM	0.9561	0.9011	0.9021
ecoliM	0.7696	0.5236	0.5596
ecoliMU	0.7484	0.3720	0.4748
ecoliOM	0.5539	0.0570	0.0902
ecommerce	0.2041	-0.0643	0.0000
euthyroid	0.7216	0.3922	0.4448
Continued on next page			

Dataset	F1-macro	Kappa	MCC
fakenews	0.4886	-0.0156	0.0000
fbis-wc	0.7749	0.7975	0.8011
finance	0.7367	0.4851	0.4841
financial-risk	0.5874	0.7002	0.7052
flags	0.3956	0.4451	0.4647
forest	0.8766	0.8632	0.8674
gas	0.9892	0.9833	0.9846
gastrointestinal	0.5415	0.3293	0.3460
gender	0.4447	0.1518	0.1542
german	0.6339	0.2775	0.2767
gestures	0.9114	0.8779	0.8753
gina	0.9374	0.8784	0.8789
gisette	0.9542	0.9063	0.9119
glass	0.8852	0.7579	0.7900
glass-g2	0.8050	0.6086	0.6170
glassBWFP	0.9550	0.8893	0.9044
glassBWNFP	0.7695	0.5162	0.5342
glassContainers	0.7939	0.5077	0.5814
glassNW	0.8532	0.6686	0.7087
glassTableware	0.6803	0.1856	0.3190
GlaucomaM	0.7985	0.5798	0.5953
gli_85	0.7901	0.4971	0.5717
glioma	0.8259	0.7034	0.7493
glioma-grade	0.7650	0.5193	0.5263
green	0.4553	-0.0867	0.0000
gsalc	0.8267	0.7318	0.7588
haberman	0.6632	0.3112	0.3407
hapt	0.7900	0.9162	0.9184
har	0.9731	0.9670	0.9728
health-activity	0.2765	0.0475	0.0558
heart	0.7227	0.4516	0.4545
heart-c	0.9109	0.7907	0.8156
heart-failure	0.9364	0.8677	0.8698
heart-quantum	0.8346	0.6704	0.6846
hepatitis	0.7994	0.5475	0.6104
higher	0.2239	0.0886	0.0930
hinselmann	0.2845	-0.3603	0.0000
hitters	0.9291	0.8769	0.8726
hiv1-proteasa	0.7865	0.5722	0.5847
hiva	0.5780	0.0758	0.1269
horse	0.5768	0.3452	0.3441
hotel-reservartions	0.8653	0.7268	0.7270
hr	0.4913	-0.0115	0.0000
htru2	0.8054	0.5771	0.6175
hypothyroid	0.5214	0.3125	0.4286
immuno-therapy	0.8012	0.5265	0.5986
ionosphere	0.8264	0.6362	0.6519
iris	0.9350	0.8940	0.9055
irish	0.8967	0.7888	0.8016
isolet	0.9040	0.8877	0.8894
jm1	0.6017	0.1930	0.2002
fvowels	0.9616	0.9680	0.9681
kc1-class-level-numericdefect	0.2663	0.2146	0.2642
kc1-class-level-top5percentDF	0.3741	-0.1246	0.0000
kc2	0.6562	0.2970	0.3139
kdc-4007	0.7935	0.7543	0.7553
kidney	0.2066	0.0088	0.0096
kidney-disease	0.9674	0.9371	0.9433
Continued on next page			

Dataset	F1-macro	Kappa	MCC
la2s-wc	0.8673	0.8492	0.8571
labor	0.8436	0.6660	0.7113
leaf	0.6907	0.6867	0.6964
led24	0.6060	0.5436	0.5516
lenses	0.5692	0.4995	0.6108
letter	0.9129	0.9102	0.9026
linkage1%	0.8738	0.7173	0.7294
loan	0.9793	0.9556	0.9474
lrs	0.6402	0.7000	0.7032
lung_discrete	0.9909	0.9968	1.0000
lymphography	0.7286	0.5448	0.5789
lymphoma2	0.6026	0.6845	0.7132
machine-failure	0.8997	0.7993	0.8026
magic04	0.8283	0.6651	0.6633
malware	0.9532	0.9131	0.9088
mammography	0.7153	0.4336	0.4366
marketing	0.7193	0.4156	0.4439
mba	0.4587	0.2066	0.2524
mental-disorders	0.6790	0.5521	0.5706
messidor	0.6536	0.3186	0.3191
meter-A	0.8717	0.7132	0.7462
meter-B	0.6111	0.3535	0.4048
meter-C	0.9968	0.9898	0.9996
meter-D	0.9578	0.9177	0.9263
mfeat-fac	0.9546	0.9535	0.9508
mfeat-fou	0.8213	0.7939	0.8007
mfeat-kar	0.9559	0.9596	0.9634
mfeat-mor	0.6656	0.6363	0.6394
mfeat-pix	0.9816	0.9846	0.9901
mfeat-zer	0.7777	0.7502	0.7443
mice-prot	0.9614	0.9495	0.9622
milk	1.0000	0.9905	0.9934
mines	0.5523	0.4461	0.4516
mobile	0.9609	0.9454	0.9464
monks-1	0.8193	0.6324	0.6306
monks-3	0.8108	0.6037	0.6210
mushroom	0.9781	0.9551	0.9594
music	0.5254	0.3863	0.3903
MUT_ci300400a_cdk_ECFP2	0.7312	0.4508	0.4592
MUT_ci300400a_cdk_ECFP4	0.7722	0.5411	0.5436
MUT_ci300400a_cdk_ECFP6	0.7292	0.4741	0.4751
MUT_ci300400a_cdk_ESTATE	0.7163	0.4387	0.4365
MUT_ci300400a_cdk_EXTENDED	0.7405	0.4890	0.4910
MUT_ci300400a_cdk_FCFP2	0.7432	0.4901	0.4916
MUT_ci300400a_cdk_FCFP4	0.7348	0.4590	0.4617
MUT_ci300400a_cdk_FCFP6	0.7593	0.5152	0.5126
MUT_ci300400a_cdk_MACCS	0.7682	0.5407	0.5464
MUT_ci300400a_cdk_PUBCHEM	0.7593	0.5186	0.5167
MUT_ci300400a_cdk_STANDARD	0.7207	0.4312	0.4329
MUT_ci300400a_rdkit_descriptors	0.7488	0.5048	0.5087
myocardial	0.3125	0.1778	0.2304
naticusdroid	0.9294	0.8703	0.8719
nci9	0.7896	0.8005	0.8267
neo	0.6840	0.1841	0.2917
new-thyroid	0.9486	0.8977	0.8947
new-thyroidT	0.7075	0.3898	0.4095
NHANES_age_prediction	0.9469	0.8928	0.8990
nursery	0.8743	0.8908	0.8941
Continued on next page			

Dataset	F1-macro	Kappa	MCC
obesity	0.9221	0.9079	0.8987
obs	0.8616	0.8017	0.8162
oh0-wc	0.9322	0.9170	0.9114
oh10-wc	0.8081	0.7758	0.7809
oh15-wc	0.8870	0.8822	0.8881
oh5-wc	0.8381	0.8116	0.8112
olive	0.8778	0.8507	0.8512
optdigits	0.9656	0.9566	0.9624
orlraws10P	1.0000	0.9993	0.9949
ozone1hr	0.5362	0.0382	0.0581
p53-mutants10%	0.4581	-0.0063	0.0000
parkinson	0.9532	0.9100	0.9075
pc1	0.6867	0.2458	0.3437
pcmac	0.5252	0.0473	0.0473
pediatric-leukemia	0.7876	0.7492	0.7585
pendigits	0.9833	0.9860	0.9837
period-10f	0.5006	0.0000	0.0000
persistence	0.7825	0.5674	0.5687
pet-adoption	0.8735	0.7330	0.7356
phishing	0.8768	0.7440	0.7531
pima	0.6954	0.3848	0.3865
pirvision	0.7430	0.5795	0.6311
placement	0.7516	0.5042	0.5063
plrx	0.4818	-0.0327	0.0000
polya	0.7345	0.4680	0.4681
post-operative	0.8134	0.5716	0.6325
pred-tox_mutagen_ref-desc	0.5235	0.0582	0.0596
prestige	0.8156	0.6658	0.7048
primary-tumor	0.2951	0.3059	0.3156
profb	0.5747	0.1502	0.1585
promoters	0.9925	1.0000	0.9951
pulsar	0.8078	0.5601	0.6109
raisin	0.8076	0.6219	0.6234
rejabatada	0.7315	0.3058	0.4272
relathe	0.9272	0.8555	0.8565
rice	0.9679	0.9433	0.9379
rocket	0.6502	0.2979	0.3041
satimage	0.9049	0.8954	0.8858
scadi	0.5142	0.4451	0.4598
schiller	0.8337	0.6041	0.6593
sclerosis	0.9974	0.9906	0.9951
secom	0.5650	0.1167	0.1265
seeds	0.9523	0.9230	0.9257
segment	0.9182	0.9055	0.8992
segmentation	0.8240	0.6317	0.6437
segmentO	0.8317	0.6271	0.6732
seismic	0.5897	0.1224	0.1632
sens-2-gram	0.6732	0.3413	0.3460
sens-3-gram	0.5744	0.1430	0.1436
sens-4-gram	0.5690	0.1395	0.1432
shoppers	0.7759	0.5351	0.5575
sick	0.7206	0.3326	0.4295
sirtuin6	0.9983	0.9918	0.9976
smarket	0.9917	0.9782	0.9791
smk.can_187	0.6328	0.2641	0.2644
smoking	0.7361	0.4688	0.4618
soil-pollution	0.1882	-0.0173	0.0000
solar-flare	0.6574	0.6745	0.6732
Continued on next page			

Dataset	F1-macro	Kappa	MCC
sonar	0.7022	0.4022	0.4050
soybean	0.9269	0.8945	0.9043
spam-detection	0.6978	0.2949	0.3756
spambase	0.8858	0.7625	0.7619
spect	0.5953	0.1849	0.1853
spectf	0.7314	0.4691	0.4747
spectrometer	0.4063	0.4449	0.4493
squash-unstored	0.8345	0.6101	0.6691
startup	0.9551	0.9057	0.9123
steel_industry	0.8576	0.8148	0.8152
stellar	0.9744	0.9353	0.9384
stock	0.8144	0.6245	0.6260
stockb	0.9544	0.9272	0.9362
streaming	0.9769	0.9738	0.9771
stress	0.8274	0.7837	0.7823
student-habits	0.2231	-0.0012	0.0000
student-lifestyle	0.3743	0.2689	0.2800
student-weekend	0.2246	0.0252	0.0261
student-workday	0.1317	-0.0188	0.0000
studentap	0.5340	0.2907	0.3012
swarm_aligned	0.8861	0.7789	0.7907
swarm_flocking	0.9318	0.8508	0.8580
tae	0.5926	0.3979	0.4013
telco-churn	0.8473	0.6992	0.7003
texture	0.9785	0.9711	0.9719
theorem	0.9079	0.8184	0.8160
thoracic	0.6128	0.2018	0.2246
Thyroid_Diff	0.8092	0.5771	0.6375
tis	0.8187	0.6289	0.6488
titanic	0.6956	0.3855	0.3898
tourist	0.5256	0.6380	0.6887
trains	0.3302	0.0000	0.0000
transfusion	0.5170	0.0324	0.0337
tuandromd	0.9295	0.8676	0.8675
turkish	0.7399	0.6621	0.6697
ur3_cobotops_grip	0.6309	0.1284	0.2120
ur3_cobotops_stop	0.6636	0.1888	0.2875
urban	0.8672	0.8538	0.8623
vehicle	0.7127	0.6773	0.6785
vote	0.8188	0.6196	0.6357
vowel	0.7398	0.6957	0.6979
wap-wc	0.6504	0.7694	0.7780
warpar10p	0.7102	0.7360	0.7479
warppie10p	0.9926	1.0000	0.9999
waveform	0.8473	0.7727	0.7657
weather-related	0.9493	0.9353	0.9426
weight-lift	0.9830	0.9819	0.9846
white-clover	0.6600	0.1813	0.3145
wifi-loc	0.9849	0.9810	0.9806
wilt	0.7210	0.2874	0.4096
wine	0.9917	0.9955	1.0000
winequality-red	0.3752	0.2916	0.3030
winequality-white	0.3951	0.3240	0.3354
wisc.bc	0.9751	0.9591	0.9544
yale	0.6693	0.6640	0.6802
yeast	0.4625	0.4620	0.4674
yeastCYT-POX	0.7508	0.3573	0.4635
yeastEXC	0.5770	0.0728	0.1229

Continued on next page

Dataset	F1-macro	Kappa	MCC
yeastME1	0.6973	0.2050	0.3377
yeastME2	0.5886	0.1063	0.1597
zip	0.9360	0.9344	0.9337

Table 84: Detailed results for Crazy 20

Dataset	F1-macro	Kappa	MCC
abalone	0.1036	0.0549	0.0558
abalone19	0.4964	-0.0072	0.0000
accelerometer	0.6285	0.2034	0.2356
ads	0.9281	0.8543	0.8562
adult	0.7800	0.5297	0.5586
advanced-iot	1.0000	1.0000	1.0000
AID_1431	0.4750	-0.0148	0.0000
AID_1431_KlekotaRothFingerprinter	0.4728	-0.0276	0.0000
AID_1431_MACCSFingerprinter	0.4750	-0.0148	0.0000
AID_1878	0.5274	0.0458	0.0515
AID_602330	0.4880	-0.0093	0.0000
AID_652128	0.3080	-0.0221	0.0000
AID1284red	0.7677	0.5355	0.5355
AID1608Moredred	0.5329	0.0656	0.0658
AID1608red	0.5249	0.0457	0.0482
AID362red	0.4710	-0.0251	0.0000
AID373AID439red	0.4879	-0.0003	0.0000
AID373red	0.5281	0.0045	0.0167
AID456red	0.4965	-0.0047	0.0000
AID604	0.6210	0.0218	0.0908
AID604AID644_AllRed	0.4912	-0.0020	0.0000
AID687AID721red	0.5923	0.0092	0.0466
AID687red	0.4867	-0.0057	0.0000
AID688red	0.4911	-0.0137	0.0000
AID721moredred	1.0000	1.0000	1.0000
AID721red	0.8333	0.6087	0.6614
AID746AID1284red	0.4884	-0.0020	0.0000
AID746red	0.5160	0.0119	0.0201
aids	0.8401	0.6734	0.6798
air_pollution	0.0826	0.0000	0.0000
alcohol	0.6817	0.6747	0.6831
all-aml	0.8537	0.6667	0.7071
anneal	0.9742	0.9538	0.9549
antivirus	1.0000	1.0000	1.0000
anuran-f-b	1.0000	1.0000	1.0000
anxiety	0.0772	-0.0318	0.0000
apple-quality	0.8120	0.6100	0.6239
aps-failure	0.6479	0.2217	0.2687
arabidopsis1%	0.4980	0.0000	0.0000
arcene	0.6926	0.3396	0.3852
arrhythmia	0.2775	0.1456	0.2860
auction	0.9549	0.9056	0.9097
audiology	0.5135	0.6906	0.7006
audit-risk	0.9742	0.9470	0.9484
autism-adolescent	0.9141	0.8136	0.8281
autism-adult	1.0000	1.0000	1.0000
autism-child	0.9348	0.8612	0.8697
autos	0.9064	0.8667	0.8758
avila	0.9977	0.9994	0.9994
balance	0.5611	0.4626	0.4635
bank	0.7094	0.3875	0.4115
bankruptcy	0.9606	0.9180	0.9211
bio	0.8172	0.6255	0.6328
biodeg	0.8365	0.6706	0.6729
biomed	1.0000	1.0000	1.0000

Continued on next page

Dataset	F1-macro	Kappa	MCC
bitcoin10%	0.2786	0.3924	0.3939
body-perf	0.7014	0.5940	0.6019
brain-tumor	0.5036	0.0049	0.0068
breast-cancer	0.5944	0.1860	0.1886
breast-cancer-ma	0.7243	0.4407	0.4485
breast-tissue	0.7407	0.7800	0.8042
bridges	0.6061	0.7143	0.7470
bub12at310k-hg16-17	0.6932	0.3704	0.3823
cad	1.0000	1.0000	1.0000
cancer	0.9844	0.9684	0.9688
cancer-uae	0.3080	-0.0203	0.0000
car-insurance	0.8049	0.6065	0.6097
cardiotocography-nsp	0.8271	0.7186	0.7209
cardiovascular	0.7312	0.4579	0.4624
cargo2k	1.0000	1.0000	1.0000
cars	0.8236	0.7773	0.7813
ccds10%	0.5427	0.0481	0.0660
cdc_diabetes	0.4459	0.3137	0.3298
census	0.7243	0.4403	0.4468
cervical-B	0.7589	0.5147	0.5171
cervical-H	0.8269	0.6485	0.6530
cervical-S	0.8481	0.6446	0.6896
children-anemia	0.8377	0.8917	0.8930
chrom19	0.8693	0.7378	0.7385
chrom211%	0.4998	0.0000	0.0000
churn	0.7306	0.4607	0.4611
cjs	0.9874	0.9826	0.9827
ckd	1.0000	1.0000	1.0000
clave	0.6182	0.6273	0.6353
cll_sub_111	0.4762	0.1429	0.3182
cmc	0.5448	0.3194	0.3237
cnae-9	0.9644	0.9583	0.9586
codon_usage	0.6409	0.7788	0.7860
coil20	1.0000	1.0000	1.0000
college	0.9172	0.8338	0.8343
collins	0.7326	0.8673	0.8708
colon-tumor	0.8537	0.6667	0.7071
colposcopies-1	0.7635	0.4942	0.5249
colposcopies-2	0.6059	0.1808	0.2076
colposcopies-4	0.7150	0.3873	0.4243
colposcopies-5	0.4528	0.0000	0.0000
colposcopies-c	0.7397	0.4487	0.4754
column-2c	0.8362	0.6578	0.6722
column-3c	0.7109	0.5908	0.6198
connect-4	0.6588	0.5573	0.5603
coupon	0.6472	0.2939	0.2945
covtype	0.8968	0.9017	0.9019
covtypeCD	0.9657	0.9312	0.9313
covtypeT	0.8842	0.7593	0.7675
crabs	0.7979	0.7333	0.7358
creditcard_trans	0.6062	0.0885	0.1472
crowdsourced	0.7092	0.8199	0.8268
cryotherapy	0.8163	0.5714	0.6325
cultivars	0.4889	0.5484	0.5546
cybersecurity	0.1615	-0.0112	0.0000
cyclopentane	0.6326	0.2623	0.2652
cylinder-bands	0.6968	0.3806	0.3936
datatrieve	0.3810	-0.1404	0.0000
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Dataset	F1-macro	Kappa	MCC
dating	0.1117	0.0103	0.0109
dbworld	1.0000	1.0000	1.0000
default	0.7106	0.4143	0.4203
dementia	1.0000	1.0000	1.0000
deposit	0.6979	0.3375	0.3807
depressed	0.4542	0.0000	0.0000
dermatology	0.9429	0.9325	0.9325
desharnais	0.6073	0.2727	0.3254
df_final	0.7551	0.6049	0.6345
DIA	0.6659	0.2778	0.3207
diabetes-100k	0.8182	0.5604	0.6239
diagnosis	1.0000	1.0000	1.0000
diamonds	0.9139	0.8876	0.8940
diamonds_all	0.6951	0.5932	0.6041
dishonest	1.0000	1.0000	1.0000
dlbcl-nih	0.4286	-0.1351	0.0000
dlbcl-stanford	0.2857	0.0000	0.0000
dna0.1%	0.4989	-0.0019	0.0000
dota2	0.5642	0.1282	0.1285
drebin	0.9316	0.8594	0.8631
dropout	0.6630	0.5827	0.5951
ecoli	0.6954	0.7942	0.7982
ecoliCP-IM	1.0000	1.0000	1.0000
ecoliM	0.8253	0.6341	0.6500
ecoliMU	0.6810	0.3125	0.3516
ecoliOM	0.6296	0.2180	0.2469
ecommerce	0.2281	-0.0429	0.0000
euthyroid	0.8763	0.7497	0.7524
fakenews	0.4705	-0.0575	0.0000
fbis-wc	0.7146	0.7316	0.7405
finance	0.7228	0.4457	0.4457
financial-risk	0.4515	0.5396	0.5710
flags	0.4750	0.6815	0.6953
forest	0.8552	0.8408	0.8426
gas	0.9954	0.9948	0.9948
gastrointestinal	0.7980	0.6690	0.7104
gender	0.4844	0.1785	0.1842
german	0.6712	0.3017	0.3377
gestures	0.8651	0.8117	0.8179
gina	0.8668	0.7186	0.7336
gisette	0.9236	0.8429	0.8471
glass	0.7094	0.6580	0.6652
glass-g2	0.8091	0.6129	0.6181
glassBWFP	0.8467	0.6897	0.6934
glassBWNFP	0.7361	0.4375	0.4719
glassContainers	0.8986	0.7755	0.7958
glassNW	0.8662	0.6957	0.7303
glassTableware	0.7471	0.3529	0.4629
GlaucomaM	0.7978	0.5824	0.5955
gli_85	0.5749	0.1429	0.1491
glioma	0.8333	0.7059	0.7500
glioma-grade	0.8845	0.7610	0.7689
green	0.5238	0.0476	0.0476
gsalc	0.9167	0.8657	0.8788
haberman	0.4671	-0.0656	0.0000
hapt	0.7161	0.9025	0.9029
har	0.9864	0.9839	0.9839
harth10%	0.5481	0.8002	0.8024
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Dataset	F1-macro	Kappa	MCC
health-activity	0.2175	0.0000	0.0000
heart	0.8118	0.6218	0.6236
heart-c	0.9674	0.9327	0.9349
heart-failure	0.9532	0.9059	0.9065
heart-quantum	0.9083	0.8000	0.8165
hepatitis	0.8077	0.5455	0.6124
higher	0.2183	0.0494	0.0517
hinselmann	0.4118	-0.1538	0.0000
hitters	0.9373	0.8745	0.8745
hiv1-proteasa	0.7250	0.4044	0.4412
hiva	0.5392	0.0769	0.0777
horse	0.4383	0.0642	0.0927
hotel-reservartions	0.8648	0.7288	0.7295
hr	0.4612	-0.0135	0.0000
ht-sensor	0.9824	0.9733	0.9734
htru2	0.9258	0.8445	0.8513
hypothyroid	0.7000	0.8813	0.8844
immuno-therapy	0.6786	0.3571	0.3571
ionosphere	0.9038	0.8059	0.8076
iris	1.0000	1.0000	1.0000
irish	1.0000	1.0000	1.0000
isolet	0.8684	0.8585	0.8591
jm1	0.6229	0.2355	0.2435
jvowels	0.9438	0.9408	0.9410
kc1-class-level-numericdefect	0.1636	0.0000	0.0000
kc1-class-level-top5percentDF	0.4444	-0.0976	0.0000
kc2	0.7312	0.4595	0.4622
kdc-4007	0.2657	0.0326	0.1240
kddcup991%	0.8114	0.9976	0.9976
kidney	0.1778	0.0000	0.0000
kidney-disease	1.0000	1.0000	1.0000
la2s-wc	0.7278	0.6713	0.6864
labor	1.0000	1.0000	1.0000
leaf	0.6282	0.6284	0.6330
led24	0.6790	0.6000	0.6035
lenses	0.5714	0.5000	0.6124
letter	0.9409	0.9386	0.9387
linkage1%	0.9634	0.9266	0.9268
loan	0.9562	0.9114	0.9125
lrs	0.6029	0.7643	0.7737
lung_discrete	0.7652	0.8367	0.8549
lymphography	0.4934	0.4510	0.4560
lymphoma2	0.6027	0.6842	0.7120
machine-failure	0.9352	0.8695	0.8703
magic04	0.8390	0.6679	0.6777
malware	1.0000	1.0000	1.0000
mammography	0.8543	0.7080	0.7086
marketing	0.6807	0.3572	0.3606
mba	0.3793	0.1163	0.1315
mental-disorders	0.9270	0.8889	0.8972
messidor	0.5993	0.1804	0.1986
meter-A	0.7333	0.4667	0.4667
meter-B	0.7500	0.5263	0.6005
meter-C	1.0000	1.0000	1.0000
meter-D	0.9583	0.9234	0.9274
mfeat-fac	0.9360	0.9278	0.9282
mfeat-fou	0.7827	0.7611	0.7622
mfeat-kar	0.9717	0.9667	0.9670
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Dataset	F1-macro	Kappa	MCC
mfeat-mor	0.6702	0.6389	0.6395
mfeat-pix	0.9902	0.9889	0.9889
mfeat-zer	0.7757	0.7611	0.7626
mice-prot	0.9893	0.9894	0.9895
milk	1.0000	1.0000	1.0000
mines	0.5385	0.4469	0.4533
mobile	0.9534	0.9502	0.9504
monks-1	1.0000	1.0000	1.0000
monks-3	0.9642	0.9285	0.9285
mushroom	1.0000	1.0000	1.0000
music	0.5088	0.3654	0.3768
MUT_ci300400a_cdk_ECFP2	0.7450	0.4736	0.4901
MUT_ci300400a_cdk_ECFP4	0.7795	0.5402	0.5590
MUT_ci300400a_cdk_ECFP6	0.7283	0.4451	0.4566
MUT_ci300400a_cdk_ESTATE	0.7284	0.4495	0.4568
MUT_ci300400a_cdk_EXTENDED	0.7604	0.5121	0.5208
MUT_ci300400a_cdk_FCFP2	0.7873	0.5703	0.5745
MUT_ci300400a_cdk_FCFP4	0.7372	0.4590	0.4744
MUT_ci300400a_cdk_FCFP6	0.7528	0.4837	0.5056
MUT_ci300400a_cdk_MACCS	0.7850	0.5642	0.5700
MUT_ci300400a_cdk_PUBCHEM	0.7896	0.5712	0.5791
MUT_ci300400a_cdk_STANDARD	0.7372	0.4679	0.4743
MUT_ci300400a_rdkit_descriptors	0.7682	0.5268	0.5365
myocardial	0.2414	0.2917	0.4167
naticusdroid	0.9588	0.9175	0.9177
nci9	0.6061	0.6000	0.6708
ncRNA10%	0.6739	0.8163	0.8218
neo	0.7331	0.3556	0.4496
new-thyroid	0.9318	0.8871	0.8941
new-thyroidT	0.9211	0.8293	0.8416
newspop	0.6465	0.2637	0.2926
NHANES_age_prediction	0.9919	0.9837	0.9838
nomao	0.9294	0.8588	0.8588
nursery	0.9156	0.9296	0.9300
obesity	0.9474	0.9391	0.9397
obs	0.9555	0.9453	0.9466
oh0-wc	0.8221	0.7954	0.7978
oh10-wc	0.6941	0.6922	0.7019
oh15-wc	0.7631	0.7487	0.7615
oh5-wc	0.8351	0.7877	0.7936
olive	0.9174	0.9123	0.9157
optdigits	0.9662	0.9604	0.9605
orlraws10P	0.8743	0.8889	0.8989
ozone1hr	0.4889	-0.0131	0.0000
p53-mutants10%	0.4992	0.0000	0.0000
parkinson	0.9750	0.9487	0.9500
particle	0.9028	0.8045	0.8055
pc1	0.7121	0.3995	0.4188
pcmac	0.5347	0.0586	0.0679
pediatric-leukemia	0.5424	0.5965	0.6097
pendigits	0.9782	0.9757	0.9757
period-10f	0.7568	0.4000	0.5000
persistence	0.7944	0.5882	0.5888
personalities	0.9752	0.9735	0.9735
pet-adoption	0.8861	0.7610	0.7719
phishing	0.9357	0.8713	0.8713
PhiUSIL10%	0.9927	0.9852	0.9854
phy	0.6950	0.3864	0.3900
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Dataset	F1-macro	Kappa	MCC
pima	0.7044	0.4045	0.4086
pirvision	0.9095	0.8847	0.8857
placement	0.7791	0.5583	0.5583
plrx	0.5916	0.1509	0.1754
polya	0.7202	0.4388	0.4403
popularity	0.4812	0.2696	0.2863
post-operative	0.5000	0.0000	0.0000
postures	0.9863	0.9830	0.9830
pred-tox_mutagen_ref-desc	0.7254	0.4412	0.4508
prestige	0.8889	0.8302	0.8462
primary-tumor	0.3758	0.3883	0.4004
processed	0.9984	0.9968	0.9968
profb	0.6278	0.2556	0.2556
promoters	0.8077	0.5455	0.6124
puc-rio	0.9849	0.9887	0.9887
pufs-1281%	0.4952	-0.0007	0.0000
pufs-6410%	0.5029	0.0052	0.0058
pulsar	0.9382	0.8729	0.8762
raisin	0.8578	0.7111	0.7155
rejafada	0.9665	0.9307	0.9330
relathe	0.9929	0.9858	0.9859
rice	0.9856	0.9711	0.9711
rocket	0.6742	0.3259	0.3484
RT_IOT2022	0.9631	0.9898	0.9898
satimage	0.8683	0.8554	0.8565
scadi	0.6600	0.6316	0.6667
schiller	0.4375	0.0000	0.0000
sclerosis	1.0000	1.0000	1.0000
secom	0.4834	0.0000	0.0000
secondary_mushroom	0.9997	0.9993	0.9993
seeds	0.9152	0.8571	0.8660
segment	0.9605	0.9494	0.9494
segmentation	0.8418	0.6822	0.6836
segmentO	0.9472	0.8888	0.8943
seismic	0.5502	0.0961	0.0986
sens-2-gram	0.6856	0.1312	0.2650
sens-3-gram	0.6687	0.0675	0.1869
sens-4-gram	0.5694	0.0500	0.0917
sensorless	0.9988	0.9987	0.9987
shoppers	0.8062	0.6094	0.6120
sick	0.8318	0.6478	0.6613
sirtuin6	1.0000	1.0000	1.0000
smarket	0.9921	0.9840	0.9841
smk_can_187	0.6833	0.3667	0.3667
smoking	0.7614	0.4959	0.5227
soil_pollution	0.2102	0.0022	0.0024
solar-flare	0.7034	0.6944	0.7041
sonar	0.6573	0.3000	0.3145
soybean	0.9706	0.9355	0.9378
spam-detection	0.8671	0.7340	0.7341
spambase	0.9387	0.8774	0.8774
spect	0.7109	0.4186	0.4215
spectf	0.7046	0.4043	0.4088
spectrometer	0.4923	0.5802	0.5848
squash-unstored	1.0000	1.0000	1.0000
startup	1.0000	1.0000	1.0000
steel_industry	0.8442	0.7968	0.7970
stellar	0.9656	0.9465	0.9466
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Dataset	F1-macro	Kappa	MCC
stock	0.7976	0.5950	0.5951
stockb	1.0000	1.0000	1.0000
streaming	0.9252	0.8503	0.8503
stress	0.9698	0.9603	0.9609
student-depression	0.7902	0.5784	0.5803
student-habits	0.1673	-0.0069	0.0000
student-lifestyle	0.3350	0.3571	0.3596
student-weekend	0.2062	0.1256	0.1407
student-workday	0.1630	-0.0159	0.0000
studentap	0.4280	0.1727	0.1794
swarm_aligned	0.9718	0.9436	0.9436
swarm_flocking	0.9677	0.9351	0.9353
swarm_grouped	0.9784	0.9567	0.9569
tae	0.4502	0.2000	0.2056
telco-churn	0.8743	0.7481	0.7486
texture	0.9811	0.9779	0.9780
theorem	0.9034	0.8061	0.8068
thoracic	0.5713	0.1215	0.1352
Thyroid_Diff	0.8683	0.7295	0.7363
tis	0.8141	0.6059	0.6264
titanic	0.7449	0.4827	0.4894
tourist	0.5250	0.6364	0.6848
trains	0.3333	0.0000	0.0000
transfusion	0.5158	0.0316	0.0316
tuandromd	0.9688	0.9363	0.9375
turkish	0.8080	0.7333	0.7408
tvnews	0.8277	0.6423	0.6553
ur3_cobotops_grip	0.6580	0.2989	0.3104
ur3_cobotops_stop	0.6940	0.3643	0.3810
urban	0.8436	0.8072	0.8104
ustilago10%	0.4972	-0.0007	0.0000
vehicle	0.7129	0.6772	0.6799
vote	0.9089	0.8143	0.8178
vowel	0.7650	0.7222	0.7284
wap-wc	0.3425	0.4621	0.5047
warpar10p	0.5859	0.6510	0.6694
warppie10p	1.0000	1.0000	1.0000
waveform	0.8569	0.7841	0.7853
weather-related	0.9686	0.9564	0.9565
weight-lift	0.9940	0.9929	0.9929
white-clover	0.6604	0.1818	0.3162
wifi-loc	0.9902	0.9867	0.9868
wilt	0.9174	0.8267	0.8343
wine	1.0000	1.0000	1.0000
winequality-red	0.3088	0.4060	0.4080
winequality-white	0.4063	0.4500	0.4585
winnipeg10%	0.9841	0.9837	0.9837
wisc.bc	0.9817	0.9627	0.9633
yale	0.5822	0.6000	0.6265
yeast	0.4975	0.4558	0.4642
yeastCYT-POX	0.9047	0.7897	0.8078
yeastEXC	0.6001	0.1981	0.1995
yeastME1	0.6808	0.3410	0.3554
yeastME2	0.6564	0.3060	0.3107
zip	0.8986	0.8926	0.8930

Table 85: Detailed results for Crazier 20

Dataset	F1-macro	Kappa	MCC
abalone	0.1004	0.0575	0.0584
abalone19	0.4976	-0.0036	0.0000
accelerometer	0.6256	0.1659	0.2143
ads	0.9229	0.8455	0.8458
adult	0.7658	0.4886	0.5298
advanced-iot	1.0000	1.0000	1.0000
AID_1431	0.4772	0.0000	0.0000
AID_1431_KlekotaRothFingerprinter	0.4728	-0.0276	0.0000
AID_1431_MACCSFingerprinter	0.4728	-0.0276	0.0000
AID_1878	0.5065	0.0086	0.0111
AID_602330	0.4880	-0.0093	0.0000
AID_652128	0.3080	-0.0221	0.0000
AID1284red	0.7677	0.5355	0.5355
AID1608Morered	0.5965	0.1660	0.1826
AID1608red	0.5354	0.0682	0.0698
AID362red	0.4768	-0.0242	0.0000
AID373AID439red	0.4935	-0.0003	0.0000
AID373red	0.5334	0.0089	0.0254
AID456red	0.4965	-0.0047	0.0000
AID604	0.6216	0.0223	0.0920
AID604AID644_AllRed	0.4919	-0.0019	0.0000
AID687AID721red	0.5968	0.0148	0.0602
AID687red	0.4913	-0.0055	0.0000
AID688red	0.4914	-0.0136	0.0000
AID721morered	1.0000	1.0000	1.0000
AID721red	0.8333	0.6087	0.6614
AID746AID1284red	0.4931	-0.0019	0.0000
AID746red	0.5252	0.0302	0.0397
aids	0.8483	0.6934	0.6965
air_pollution	0.0826	0.0000	0.0000
alcohol	0.6304	0.6439	0.6574
all-aml	1.0000	1.0000	1.0000
anneal	0.9872	0.9766	0.9769
antivirus	1.0000	1.0000	1.0000
anuran-f-b	1.0000	1.0000	1.0000
anxiety	0.1079	0.0046	0.0046
apple-quality	0.8154	0.6250	0.6308
aps-failure	0.6603	0.2307	0.2884
arabidopsis1%	0.4980	0.0000	0.0000
arcene	0.6926	0.3396	0.3852
arrhythmia	0.2775	0.1456	0.2860
auction	0.8435	0.6686	0.6855
audiology	0.4248	0.6349	0.6477
audit-risk	0.9869	0.9734	0.9737
autism-adolescent	0.9141	0.8136	0.8281
autism-adult	1.0000	1.0000	1.0000
autism-child	0.9348	0.8612	0.8697
autos	0.9064	0.8667	0.8758
avila	0.9977	0.9994	0.9994
balance	0.5061	0.4790	0.4792
bank	0.7460	0.4918	0.4919
bankruptcy	0.9606	0.9180	0.9211
bio	0.8237	0.6407	0.6463
biodeg	0.8365	0.6706	0.6729
biomed	1.0000	1.0000	1.0000
Continued on next page			

Dataset	F1-macro	Kappa	MCC
bitcoin10%	0.3160	0.4378	0.4594
body-perf	0.6964	0.5910	0.5965
brain-tumor	0.5084	0.0162	0.0168
breast-cancer	0.6210	0.2410	0.2418
breast-cancer-ma	0.5345	0.0678	0.0690
breast-tissue	0.7407	0.7800	0.8042
bridges	0.6061	0.7143	0.7470
bub12at310k-hg16-17	0.6908	0.3499	0.3732
cad	1.0000	1.0000	1.0000
cancer	1.0000	1.0000	1.0000
cancer-uae	0.3000	-0.0417	0.0000
car-insurance	0.8032	0.6021	0.6063
cardiotocography-nsp	0.8066	0.7166	0.7190
cardiovascular	0.7274	0.4507	0.4547
cargo2k	1.0000	1.0000	1.0000
cars	0.7790	0.7324	0.7354
ccds10%	0.5427	0.0481	0.0660
cdc_diabetes	0.4457	0.3214	0.3306
census	0.7258	0.4503	0.4514
cervical-B	0.7589	0.5147	0.5171
cervical-H	0.8269	0.6485	0.6530
cervical-S	0.8481	0.6446	0.6896
children-anemia	0.8368	0.8895	0.8907
chrom19	0.7843	0.5261	0.5590
chrom211%	0.4998	0.0000	0.0000
churn	0.7426	0.4798	0.4846
cjs	0.9915	0.9869	0.9870
ckd	1.0000	1.0000	1.0000
clave	0.6325	0.6270	0.6366
cll_sub_111	0.5945	0.2174	0.2548
cmc	0.5533	0.3384	0.3438
cnae-9	0.9564	0.9479	0.9485
codon_usage	0.6536	0.8022	0.8070
coil20	1.0000	1.0000	1.0000
college	0.9172	0.8338	0.8343
collins	0.8045	0.8895	0.8923
colon-tumor	0.8537	0.6667	0.7071
colposcopies-1	0.6821	0.3591	0.3638
colposcopies-2	0.6575	0.2478	0.3056
colposcopies-4	0.6667	0.3165	0.3310
colposcopies-5	0.4528	0.0000	0.0000
colposcopies-c	0.6919	0.3741	0.3825
column-2c	0.8362	0.6578	0.6722
column-3c	0.7109	0.5908	0.6198
connect-4	0.6421	0.5574	0.5574
coupon	0.6593	0.3187	0.3187
covtype	0.9135	0.9162	0.9164
covtypeCD	0.9685	0.9370	0.9370
covtypeT	0.9187	0.8368	0.8374
crabs	0.7979	0.7333	0.7358
creditcard_trans	0.6035	0.0918	0.1472
crowdsourced	0.7166	0.8363	0.8408
cryotherapy	0.8163	0.5714	0.6325
cultivars	0.5651	0.6129	0.6205
cybersecurity	0.1687	0.0002	0.0002
cyclopentane	0.6657	0.3306	0.3315
cylinder-bands	0.7221	0.4414	0.4442
datatrieve	0.3810	-0.1404	0.0000
Continued on next page			

Dataset	F1-macro	Kappa	MCC
dating	0.1038	0.0035	0.0035
dbworld	1.0000	1.0000	1.0000
default	0.7105	0.4143	0.4201
dementia	1.0000	1.0000	1.0000
deposit	0.7405	0.4790	0.4806
depressed	0.6649	0.0675	0.1869
dermatology	0.9429	0.9325	0.9325
desharnais	0.6073	0.2727	0.3254
df_final	0.8880	0.8072	0.8225
DIA	0.7302	0.3889	0.4491
diabetes-100k	0.8821	0.7343	0.7613
diagnosis	1.0000	1.0000	1.0000
diamonds	0.9275	0.9097	0.9142
diamonds_all	0.6871	0.5911	0.5980
dishonest	1.0000	1.0000	1.0000
dlbcl-nih	0.6202	0.2394	0.2403
dlbcl-stanford	0.7059	0.2857	0.4082
dna0.1%	0.4991	-0.0012	0.0000
dota2	0.5616	0.1226	0.1232
drebin	0.9370	0.8716	0.8740
dropout	0.6696	0.5831	0.5951
ecoli	0.6954	0.7942	0.7982
ecoliCP-IM	1.0000	1.0000	1.0000
ecoliM	0.8253	0.6341	0.6500
ecoliMU	0.7292	0.4359	0.4543
ecoliOM	0.6296	0.2180	0.2469
ecommerce	0.2487	0.0005	0.0005
euthyroid	0.8855	0.7708	0.7709
fakenews	0.4546	-0.0907	0.0000
fbis-wc	0.7038	0.7315	0.7398
finance	0.7418	0.4832	0.4836
financial-risk	0.4586	0.5476	0.5827
flags	0.4402	0.6190	0.6273
forest	0.8552	0.8408	0.8426
gas	0.9943	0.9939	0.9939
gastrointestinal	0.5359	0.4161	0.5135
gender	0.4937	0.1887	0.1964
german	0.6151	0.2020	0.2260
gestures	0.8849	0.8436	0.8462
gina	0.9107	0.8213	0.8214
gisette	0.9302	0.8600	0.8604
glass	0.7292	0.7255	0.7310
glass-g2	0.8091	0.6129	0.6181
glassBWFP	0.8467	0.6897	0.6934
glassBWNFP	0.7361	0.4375	0.4719
glassContainers	1.0000	1.0000	1.0000
glassNW	0.9340	0.8591	0.8677
glassTableware	0.7471	0.3529	0.4629
GlaucomaM	0.7978	0.5824	0.5955
gli_85	0.3846	-0.2000	0.0000
glioma	0.8333	0.7059	0.7500
glioma-grade	0.8845	0.7610	0.7689
green	0.5238	0.0476	0.0476
gsalc	0.9167	0.8657	0.8788
haberman	0.4886	-0.0227	0.0000
hapt	0.7753	0.8992	0.8999
har	0.9859	0.9832	0.9833
harth10%	0.5473	0.8007	0.8028
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Dataset	F1-macro	Kappa	MCC
health-activity	0.2175	0.0000	0.0000
heart	0.7794	0.5525	0.5587
heart-c	0.9067	0.7964	0.8134
heart-failure	0.9580	0.9159	0.9160
heart-quantum	0.9083	0.8000	0.8165
hepatitis	0.8077	0.5455	0.6124
higher	0.2205	0.0610	0.0625
hinselmann	0.4444	0.0000	0.0000
hitters	0.9373	0.8745	0.8745
hiv1-proteasa	0.7294	0.4149	0.4506
hiva	0.5200	0.0398	0.0399
horse	0.4383	0.0642	0.0927
hotel-reservartions	0.8584	0.7166	0.7167
hr	0.4623	-0.0069	0.0000
ht-sensor	0.9833	0.9749	0.9749
htru2	0.9296	0.8546	0.8590
hypothyroid	0.6936	0.8880	0.8882
immuno-therapy	0.6786	0.3571	0.3571
ionosphere	0.9038	0.8059	0.8076
iris	1.0000	1.0000	1.0000
irish	1.0000	1.0000	1.0000
isolet	0.8644	0.8558	0.8563
jm1	0.6183	0.2269	0.2344
jvowels	0.9490	0.9465	0.9466
kc1-class-level-numericdefect	0.1636	0.0000	0.0000
kc1-class-level-top5percentDF	0.4643	-0.0714	0.0000
kc2	0.7312	0.4595	0.4622
kdc-4007	0.5603	0.3486	0.4008
kddcup991%	0.8114	0.9976	0.9976
kidney	0.1778	0.0000	0.0000
kidney-disease	1.0000	1.0000	1.0000
la2s-wc	0.7402	0.6531	0.6712
labor	1.0000	1.0000	1.0000
leaf	0.6845	0.7213	0.7280
led24	0.6739	0.5989	0.6059
lenses	0.5714	0.5000	0.6124
letter	0.9447	0.9428	0.9428
linkage1%	0.9634	0.9266	0.9268
loan	0.9609	0.9210	0.9217
lrs	0.6029	0.7643	0.7737
lung_discrete	1.0000	1.0000	1.0000
lymphography	0.4934	0.4510	0.4560
lymphoma2	0.4194	0.5000	0.5511
machine-failure	0.9352	0.8695	0.8703
magic04	0.8394	0.6734	0.6786
malware	1.0000	1.0000	1.0000
mammography	0.8543	0.7080	0.7086
marketing	0.6655	0.3198	0.3284
mba	0.4097	0.2301	0.2314
mental-disorders	0.9270	0.8889	0.8972
messidor	0.6266	0.2513	0.2532
meter-A	0.8730	0.7143	0.7454
meter-B	0.7500	0.5263	0.6005
meter-C	1.0000	1.0000	1.0000
meter-D	0.9583	0.9234	0.9274
mfeat-fac	0.9454	0.9389	0.9391
mfeat-fou	0.7829	0.7611	0.7629
mfeat-kar	0.9722	0.9667	0.9671
Continued on next page			

Dataset	F1-macro	Kappa	MCC
mfeat-mor	0.6752	0.6444	0.6451
mfeat-pix	0.9854	0.9833	0.9834
mfeat-zer	0.7944	0.7778	0.7787
mice-prot	0.9791	0.9788	0.9792
milk	0.9919	0.9855	0.9857
mines	0.5718	0.4837	0.4935
mobile	0.9445	0.9395	0.9397
monks-1	1.0000	1.0000	1.0000
monks-3	0.9642	0.9285	0.9285
mushroom	1.0000	1.0000	1.0000
music	0.5122	0.3822	0.3885
MUT_ci300400a_cdk_ECFP2	0.7515	0.4938	0.5031
MUT_ci300400a_cdk_ECFP4	0.7721	0.5332	0.5442
MUT_ci300400a_cdk_ECFP6	0.7426	0.4824	0.4852
MUT_ci300400a_cdk_ESTATE	0.7318	0.4605	0.4635
MUT_ci300400a_cdk_EXTENDED	0.7607	0.5182	0.5213
MUT_ci300400a_cdk_FCFP2	0.7923	0.5834	0.5846
MUT_ci300400a_cdk_FCFP4	0.7250	0.4392	0.4501
MUT_ci300400a_cdk_FCFP6	0.7474	0.4796	0.4949
MUT_ci300400a_cdk_MACCS	0.7857	0.5685	0.5715
MUT_ci300400a_cdk_PUBCHEM	0.7802	0.5582	0.5603
MUT_ci300400a_cdk_STANDARD	0.7562	0.5117	0.5124
MUT_ci300400a_rdkit_descriptors	0.7690	0.5343	0.5380
myocardial	0.2414	0.2917	0.4167
naticusdroid	0.9606	0.9209	0.9212
nci9	0.7895	0.8000	0.8281
ncRNA10%	0.6744	0.8188	0.8234
neo	0.7337	0.3580	0.4510
new-thyroid	1.0000	1.0000	1.0000
new-thyroidT	1.0000	1.0000	1.0000
newspop	0.6567	0.3124	0.3133
NHANES_age_prediction	0.9919	0.9837	0.9838
nomao	0.9232	0.8457	0.8465
nursery	0.9268	0.9365	0.9368
obesity	0.9421	0.9336	0.9340
obs	0.9445	0.9323	0.9339
oh0-wc	0.8780	0.8643	0.8651
oh10-wc	0.7435	0.7703	0.7760
oh15-wc	0.8289	0.7747	0.7832
oh5-wc	0.8678	0.8377	0.8401
olive	0.9174	0.9123	0.9157
optdigits	0.9611	0.9545	0.9546
orlraws10P	1.0000	1.0000	1.0000
ozone1hr	0.4889	-0.0131	0.0000
p53-mutants10%	0.4992	0.0000	0.0000
parkinson	0.9915	0.9828	0.9830
particle	0.9035	0.8067	0.8069
pc1	0.6879	0.3683	0.3739
pcmac	0.5094	0.0132	0.0175
pediatric-leukemia	0.5530	0.5939	0.6160
pendigits	0.9781	0.9757	0.9757
period-10f	0.7568	0.4000	0.5000
persistence	0.7773	0.5541	0.5546
personalities	0.9780	0.9765	0.9765
pet-adoption	0.8804	0.7480	0.7604
phishing	0.9318	0.8635	0.8636
PhiUSIL10%	0.9944	0.9887	0.9888
phy	0.7046	0.4086	0.4092
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Dataset	F1-macro	Kappa	MCC
pima	0.6580	0.3070	0.3155
pirvision	0.8146	0.7294	0.7361
placement	0.7772	0.5545	0.5545
plrx	0.4000	-0.1020	0.0000
polya	0.7035	0.3799	0.4049
popularity	0.4867	0.2173	0.2502
post-operative	0.5000	0.0000	0.0000
postures	0.9864	0.9832	0.9832
pred-tox_mutagen_ref-desc	0.6324	0.2647	0.2648
prestige	0.8889	0.8302	0.8462
primary-tumor	0.4020	0.3857	0.3949
processed	0.9981	0.9962	0.9962
profb	0.5412	0.0792	0.0819
promoters	0.7143	0.2857	0.4082
puc-rio	0.9869	0.9901	0.9901
pufs-1281%	0.5052	0.0085	0.0103
pufs-6410%	0.5006	0.0013	0.0013
pulsar	0.9459	0.8895	0.8917
raisin	0.8578	0.7111	0.7155
rejafada	0.9665	0.9307	0.9330
relathe	0.9929	0.9858	0.9859
rice	0.9850	0.9700	0.9700
rocket	0.6824	0.3595	0.3647
RT_IOT2022	0.9658	0.9906	0.9906
satimage	0.8709	0.8594	0.8603
scadi	0.6600	0.6316	0.6667
schiller	0.4375	0.0000	0.0000
sclerosis	1.0000	1.0000	1.0000
secom	0.4834	0.0000	0.0000
secondary_mushroom	0.9995	0.9990	0.9990
seeds	0.9152	0.8571	0.8660
segment	0.9605	0.9494	0.9494
segmentation	0.8266	0.6515	0.6533
segmentO	0.9609	0.9187	0.9218
seismic	0.5789	0.1334	0.1480
sens-2-gram	0.5838	0.0286	0.0793
sens-3-gram	0.6601	0.0342	0.1320
sens-4-gram	0.5694	0.0500	0.0917
sensorless	0.9986	0.9985	0.9985
shoppers	0.8089	0.6164	0.6177
sick	0.8353	0.6625	0.6695
sirtuin6	1.0000	1.0000	1.0000
smarket	1.0000	1.0000	1.0000
smk_can_187	0.6292	0.2570	0.2584
smoking	0.7632	0.5068	0.5264
soil_pollution	0.1655	-0.0385	0.0000
solar-flare	0.7496	0.7324	0.7411
sonar	0.6094	0.2000	0.2182
soybean	0.9753	0.9516	0.9528
spam-detection	0.8671	0.7340	0.7341
spambase	0.9270	0.8534	0.8540
spect	0.7900	0.5652	0.5791
spectf	0.7481	0.4948	0.4961
spectrometer	0.4316	0.4992	0.5045
squash-unstored	0.8333	0.6154	0.6667
startup	1.0000	1.0000	1.0000
steel_industry	0.8554	0.8127	0.8128
stellar	0.9654	0.9460	0.9462
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Dataset	F1-macro	Kappa	MCC
stock	0.8214	0.6426	0.6428
stockb	1.0000	1.0000	1.0000
streaming	0.9272	0.8543	0.8543
stress	0.9679	0.9603	0.9603
student-depression	0.8121	0.6225	0.6241
student-habits	0.1594	-0.0308	0.0000
student-lifestyle	0.3321	0.3554	0.3581
student-weekend	0.2101	0.1055	0.1284
student-workday	0.1630	-0.0159	0.0000
studentap	0.4425	0.1574	0.1621
swarm_aligned	0.9605	0.9200	0.9209
swarm_flocking	0.9639	0.9276	0.9277
swarm_grouped	0.9701	0.9394	0.9403
tae	0.4667	0.2000	0.2013
telco-churn	0.8677	0.7338	0.7353
texture	0.9776	0.9739	0.9740
theorem	0.8910	0.7819	0.7820
thoracic	0.5444	0.0824	0.0866
Thyroid_Diff	0.8364	0.6713	0.6727
tis	0.7977	0.5643	0.5927
titanic	0.7714	0.5247	0.5418
tourist	0.5250	0.6364	0.6848
trains	0.3333	0.0000	0.0000
transfusion	0.5247	0.0489	0.0494
tuandromd	0.9677	0.9352	0.9354
turkish	0.8778	0.8333	0.8354
tvnews	0.8381	0.6710	0.6762
ur3_cobotops_grip	0.6437	0.2617	0.2784
ur3_cobotops_stop	0.6843	0.3341	0.3579
urban	0.8282	0.7720	0.7776
ustilago10%	0.4972	-0.0007	0.0000
vehicle	0.6989	0.6479	0.6550
vote	0.9089	0.8143	0.8178
vowel	0.7262	0.6667	0.6752
wap-wc	0.4026	0.5756	0.5924
warpar10p	0.5859	0.6510	0.6694
warppie10p	0.9583	0.9470	0.9494
waveform	0.8521	0.7751	0.7780
weather-related	0.9786	0.9716	0.9718
weight-lift	0.9937	0.9926	0.9926
white-clover	0.6604	0.1818	0.3162
wifi-loc	0.9902	0.9867	0.9868
wilt	0.9284	0.8551	0.8568
wine	1.0000	1.0000	1.0000
winequality-red	0.3113	0.4161	0.4181
winequality-white	0.3995	0.4406	0.4470
winnipeg10%	0.9900	0.9837	0.9837
wisc.bc	0.9817	0.9627	0.9633
yale	0.5786	0.6000	0.6237
yeast	0.4962	0.4574	0.4657
yeastCYT-POX	0.9047	0.7897	0.8078
yeastEXC	0.4861	-0.0278	0.0000
yeastME1	0.7845	0.5613	0.5674
yeastME2	0.6024	0.1766	0.1938
zip	0.9013	0.8975	0.8977

Table 86: Detailed results for Crazy OVA 20

Dataset	F1-macro	Kappa	MCC
abalone	0.0860	0.0522	0.0531
abalone19	0.4976	-0.0036	0.0000
accelerometer	0.6265	0.1854	0.2249
ads	0.9289	0.8570	0.8577
adult	0.7788	0.5269	0.5562
advanced-iot	1.0000	1.0000	1.0000
AID_1431	0.4750	-0.0148	0.0000
AID_1431_KlekotaRothFingerprinter	0.4706	-0.0389	0.0000
AID_1431_MACCSFingerprinter	0.4706	-0.0389	0.0000
AID_1878	0.5083	0.0150	0.0161
AID_602330	0.4866	-0.0169	0.0000
AID_652128	0.3040	-0.0435	0.0000
AID1284red	0.8127	0.6197	0.6248
AID1608Moredred	0.5965	0.1660	0.1826
AID1608red	0.5755	0.1290	0.1433
AID362red	0.4768	-0.0242	0.0000
AID373AID439red	0.4923	-0.0003	0.0000
AID373red	0.5305	0.0061	0.0202
AID456red	0.4957	-0.0050	0.0000
AID604	0.6215	0.0222	0.0917
AID604AID644_AllRed	0.4881	-0.0020	0.0000
AID687AID721red	0.5949	0.0120	0.0537
AID687red	0.4903	-0.0056	0.0000
AID688red	0.5015	0.0020	0.0024
AID721moredred	1.0000	1.0000	1.0000
AID721red	0.8333	0.6087	0.6614
AID746AID1284red	0.4918	-0.0019	0.0000
AID746red	0.5205	0.0194	0.0289
aids	0.8545	0.7048	0.7089
air_pollution	0.0826	0.0000	0.0000
alcohol	0.6067	0.6640	0.6668
all-aml	1.0000	1.0000	1.0000
anneal	0.9872	0.9766	0.9769
antivirus	1.0000	1.0000	1.0000
anuran-f-b	1.0000	1.0000	1.0000
anxiety	0.0922	-0.0238	0.0000
apple-quality	0.8204	0.6350	0.6409
aps-failure	0.6624	0.2305	0.2910
arabidopsis1%	0.4980	0.0000	0.0000
arcene	0.6926	0.3396	0.3852
arrhythmia	0.3946	0.2720	0.3988
auction	0.9339	0.8678	0.8678
audiology	0.5057	0.6913	0.7012
audit-risk	0.9869	0.9734	0.9737
autism-adolescent	0.9141	0.8136	0.8281
autism-adult	1.0000	1.0000	1.0000
autism-child	0.9665	0.9308	0.9330
autos	0.9064	0.8667	0.8758
avila	0.9974	0.9988	0.9988
balance	0.6203	0.4967	0.4975
bank	0.7191	0.4228	0.4350
bankruptcy	0.9606	0.9180	0.9211
bio	0.8237	0.6407	0.6463
biodeg	0.8470	0.6927	0.6940
biomed	1.0000	1.0000	1.0000

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Dataset	F1-macro	Kappa	MCC
bitcoin10%	0.3130	0.2487	0.2698
body-perf	0.7138	0.6149	0.6194
brain-tumor	0.5077	0.0136	0.0154
breast-cancer	0.5944	0.1860	0.1886
breast-cancer-ma	0.7333	0.4590	0.4667
breast-tissue	0.7179	0.6733	0.6869
bridges	0.6061	0.7143	0.7470
bub12at310k-hg16-17	0.6947	0.3791	0.3868
cad	1.0000	1.0000	1.0000
cancer	0.9844	0.9684	0.9688
cancer-uae	0.3116	-0.0120	0.0000
car-insurance	0.8027	0.6015	0.6054
cardiotocography-nsp	0.8121	0.7277	0.7311
cardiovascular	0.7308	0.4574	0.4616
cargo2k	1.0000	1.0000	1.0000
cars	0.8236	0.7773	0.7813
ccds10%	0.5427	0.0481	0.0660
cdc_diabetes	0.4511	0.2921	0.3139
census	0.7513	0.4820	0.4819
cervical-B	0.7589	0.5147	0.5171
cervical-H	0.8269	0.6485	0.6530
cervical-S	0.8481	0.6446	0.6896
children-anemia	0.7733	0.8858	0.8875
chrom19	0.9651	0.8801	0.9038
chrom211%	0.4998	0.0000	0.0000
churn	0.7338	0.4656	0.4674
cjs	0.9831	0.9782	0.9783
ckd	1.0000	1.0000	1.0000
clave	0.6780	0.6442	0.6518
cll_sub_111	0.2848	-0.0435	0.0000
cmc	0.5607	0.3428	0.3484
cnae-9	0.9544	0.9479	0.9481
codon_usage	0.6684	0.8166	0.8201
coil20	1.0000	1.0000	1.0000
college	0.9172	0.8338	0.8343
collins	0.8045	0.8895	0.8923
colon-tumor	0.8537	0.6667	0.7071
colposcopies-1	0.7197	0.4249	0.4385
colposcopies-2	0.6526	0.2770	0.3025
colposcopies-4	0.6667	0.3165	0.3310
colposcopies-5	0.4423	-0.0610	0.0000
colposcopies-c	0.7397	0.4487	0.4754
column-2c	0.8110	0.5991	0.6218
column-3c	0.7225	0.6347	0.6424
connect-4	0.6743	0.5941	0.5987
coupon	0.6507	0.2989	0.3015
covtype	0.9423	0.9320	0.9207
covtypeCD	0.9615	0.9225	0.9229
covtypeT	0.9082	0.8146	0.8162
crabs	0.7202	0.6000	0.6145
creditcard_trans	0.6038	0.0647	0.1261
crowdsourced	0.7198	0.8488	0.8510
cryotherapy	0.8163	0.5714	0.6325
cultivars	0.4845	0.5161	0.5225
cybersecurity	0.1600	-0.0052	0.0000
cyclopentane	0.6657	0.3306	0.3315
cylinder-bands	0.7276	0.4475	0.4553
datatrieve	0.3810	-0.1404	0.0000
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Dataset	F1-macro	Kappa	MCC
dating	0.1055	0.0058	0.0058
dbworld	1.0000	1.0000	1.0000
default	0.7094	0.4148	0.4183
dementia	1.0000	1.0000	1.0000
deposit	0.7024	0.3596	0.3937
depressed	0.6649	0.0675	0.1869
dermatology	0.9429	0.9325	0.9325
desharnais	0.8497	0.6000	0.6677
df_final	0.8786	0.8072	0.8123
DIA	0.6986	0.3514	0.3897
diabetes-100k	0.8372	0.6154	0.6661
diagnosis	1.0000	1.0000	1.0000
diamonds	0.9588	0.9544	0.9559
diamonds_all	0.7166	0.6253	0.6336
dishonest	1.0000	1.0000	1.0000
dlbcl-nih	0.4507	-0.0769	0.0000
dlbcl-stanford	0.7059	0.2857	0.4082
dna0.1%	0.4990	-0.0015	0.0000
dota2	0.5684	0.1367	0.1368
drebin	0.9493	0.8979	0.8987
dropout	0.6553	0.5650	0.5761
ecoli	0.6954	0.7942	0.7982
ecoliCP-IM	1.0000	1.0000	1.0000
ecoliM	0.8253	0.6341	0.6500
ecoliMU	0.7024	0.3678	0.3975
ecoliOM	0.6513	0.2747	0.2948
ecommerce	0.2644	0.0284	0.0290
euthyroid	0.9031	0.8061	0.8062
fakenews	0.4934	-0.0128	0.0000
fbis-wc	0.7592	0.7619	0.7677
finance	0.7228	0.4457	0.4457
financial-risk	0.4668	0.5583	0.5939
flags	0.4205	0.6154	0.6239
forest	0.8750	0.8402	0.8446
gas	0.9965	0.9956	0.9956
gastrointestinal	0.7980	0.6690	0.7104
gender	0.4895	0.1928	0.1947
german	0.6322	0.2439	0.2621
gestures	0.8749	0.8322	0.8335
gina	0.8870	0.7698	0.7740
gisette	0.9323	0.8629	0.8646
glass	0.7366	0.7316	0.7341
glass-g2	0.8091	0.6129	0.6181
glassBWFP	0.8467	0.6897	0.6934
glassBWNFP	0.7698	0.5161	0.5394
glassContainers	1.0000	1.0000	1.0000
glassNW	0.9340	0.8591	0.8677
glassTableware	0.4500	-0.0732	0.0000
GlaucomaM	0.7978	0.5824	0.5955
gli_85	0.3846	-0.2000	0.0000
glioma	0.8333	0.7059	0.7500
glioma-grade	0.8845	0.7610	0.7689
green	0.5238	0.0476	0.0476
gsalc	0.9167	0.8657	0.8788
haberman	0.4466	-0.1053	0.0000
hapt	0.8033	0.9155	0.9160
har	0.9871	0.9845	0.9846
harth10%	0.5548	0.8240	0.8151
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Dataset	F1-macro	Kappa	MCC
health-activity	0.2175	0.0000	0.0000
heart	0.7794	0.5525	0.5587
heart-c	0.9674	0.9327	0.9349
heart-failure	0.9603	0.9204	0.9206
heart-quantum	0.9083	0.8000	0.8165
hepatitis	0.6779	0.3333	0.3536
higher	0.2483	0.1411	0.1488
hinselmann	0.4444	0.0000	0.0000
hitters	0.9373	0.8745	0.8745
hiv1-proteasa	0.7381	0.4355	0.4690
hiva	0.5537	0.1074	0.1074
horse	0.4774	0.1467	0.1826
hotel-reservartions	0.8609	0.7216	0.7218
hr	0.4602	-0.0199	0.0000
ht-sensor	1.0000	0.9878	0.9863
htru2	0.9296	0.8546	0.8590
hypothyroid	0.7273	0.9526	0.9526
immuno-therapy	0.6786	0.3571	0.3571
ionosphere	0.9038	0.8059	0.8076
iris	1.0000	1.0000	1.0000
irish	1.0000	1.0000	1.0000
isolet	0.8780	0.8718	0.8721
jm1	0.6385	0.2729	0.2762
javowels	0.9679	0.9670	0.9671
kc1-class-level-numericdefect	0.1636	0.0000	0.0000
kc1-class-level-top5percentDF	0.4444	-0.0976	0.0000
kc2	0.7312	0.4595	0.4622
kdc-4007	0.8565	0.8283	0.8291
kddcup991%	0.8885	0.9979	0.9979
kidney	0.1778	0.0000	0.0000
kidney-disease	1.0000	1.0000	1.0000
la2s-wc	0.8108	0.7800	0.7845
labor	1.0000	1.0000	1.0000
leaf	0.6618	0.6906	0.6983
led24	0.5972	0.6011	0.6064
lenses	1.0000	1.0000	1.0000
letter	0.9419	0.9397	0.9397
linkage1%	0.9634	0.9266	0.9268
loan	0.9615	0.9214	0.9230
lrs	0.6405	0.8169	0.8256
lung_discrete	0.7652	0.8367	0.8549
lymphography	0.4934	0.4510	0.4560
lymphoma2	0.6027	0.6842	0.7120
machine-failure	0.9352	0.8695	0.8703
magic04	0.8384	0.6738	0.6768
malware	1.0000	1.0000	1.0000
mammography	0.8543	0.7080	0.7086
marketing	0.6589	0.3093	0.3159
mba	0.4289	0.2796	0.2803
mental-disorders	0.9270	0.8889	0.8972
messidor	0.6044	0.1999	0.2088
meter-A	0.7333	0.4667	0.4667
meter-B	0.7500	0.5263	0.6005
meter-C	1.0000	1.0000	1.0000
meter-D	0.9583	0.9234	0.9274
mfeat-fac	0.9454	0.9389	0.9391
mfeat-fou	0.7898	0.7667	0.7681
mfeat-kar	0.9661	0.9611	0.9614
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Dataset	F1-macro	Kappa	MCC
mfeat-mor	0.7114	0.6778	0.6783
mfeat-pix	0.9902	0.9889	0.9889
mfeat-zer	0.7599	0.7389	0.7399
mice-prot	0.9612	0.9576	0.9579
milk	1.0000	1.0000	1.0000
mines	0.5417	0.4481	0.4515
mobile	0.9466	0.9430	0.9432
monks-1	1.0000	1.0000	1.0000
monks-3	0.9642	0.9285	0.9285
mushroom	1.0000	1.0000	1.0000
music	0.5093	0.3820	0.3881
MUT_ci300400a_cdk_ECFP2	0.7484	0.4832	0.4968
MUT_ci300400a_cdk_ECFP4	0.7803	0.5453	0.5606
MUT_ci300400a_cdk_ECFP6	0.7283	0.4499	0.4567
MUT_ci300400a_cdk_ESTATE	0.7272	0.4482	0.4543
MUT_ci300400a_cdk_EXTENDED	0.7675	0.5276	0.5350
MUT_ci300400a_cdk_FCFP2	0.7954	0.5880	0.5908
MUT_ci300400a_cdk_FCFP4	0.7416	0.4694	0.4831
MUT_ci300400a_cdk_FCFP6	0.7593	0.5001	0.5185
MUT_ci300400a_cdk_MACCS	0.7868	0.5708	0.5736
MUT_ci300400a_cdk_PUBCHEM	0.7959	0.5874	0.5919
MUT_ci300400a_cdk_STANDARD	0.7537	0.5052	0.5073
MUT_ci300400a_rdkit_descriptors	0.7686	0.5313	0.5372
myocardial	0.3102	0.3867	0.4911
naticusdroid	0.9595	0.9189	0.9191
nci9	0.6061	0.6000	0.6708
ncRNA10%	0.7107	0.8312	0.8468
neo	0.7331	0.3546	0.4494
new-thyroid	1.0000	1.0000	1.0000
new-thyroidT	1.0000	1.0000	1.0000
newspop	0.6595	0.3051	0.3190
NHANES_age_prediction	0.9919	0.9837	0.9838
nomao	0.9251	0.8493	0.8502
nursery	0.8664	0.9191	0.9197
obesity	0.9379	0.9280	0.9287
obs	0.9872	0.9727	0.9732
oh0-wc	0.9061	0.8869	0.8877
oh10-wc	0.7870	0.7395	0.7455
oh15-wc	0.8721	0.8506	0.8540
oh5-wc	0.8408	0.8131	0.8159
olive	0.9174	0.9123	0.9157
optdigits	0.9686	0.9624	0.9625
orlraws10P	1.0000	1.0000	1.0000
ozone1hr	0.4889	-0.0131	0.0000
p53-mutants10%	0.4992	0.0000	0.0000
parkinson	0.9915	0.9828	0.9830
particle	0.9047	0.8094	0.8094
pc1	0.7030	0.3761	0.3993
pcmac	0.4699	-0.0303	0.0000
pediatric-leukemia	0.5813	0.6685	0.6756
pendigits	0.9855	0.9838	0.9839
period-10f	0.5950	0.1818	0.1890
persistence	0.7881	0.5763	0.5763
personalities	0.9742	0.9724	0.9725
pet-adoption	0.8793	0.7521	0.7585
phishing	0.9359	0.8718	0.8718
PhiUSIL10%	0.9953	0.9905	0.9905
phy	0.7012	0.3889	0.4022
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Dataset	F1-macro	Kappa	MCC
pima	0.6891	0.3724	0.3780
pirvision	0.8133	0.7266	0.7346
placement	0.7709	0.5417	0.5418
plrx	0.5282	0.0526	0.0555
polya	0.7178	0.4271	0.4351
popularity	0.5071	0.2882	0.2983
post-operative	0.5000	0.0000	0.0000
postures	0.9855	0.9821	0.9821
pred-tox_mutagen_ref-desc	0.6777	0.3529	0.3554
prestige	0.8889	0.8302	0.8462
primary-tumor	0.3698	0.3231	0.3313
processed	1.0000	1.0000	0.9923
profb	0.6192	0.2378	0.2384
promoters	0.8077	0.5455	0.6124
puc-rio	0.9868	0.9897	0.9897
pufs-1281%	0.4917	-0.0030	0.0000
pufs-6410%	0.5002	0.0004	0.0004
pulsar	0.9485	0.8950	0.8969
raisin	0.8458	0.6889	0.6916
rejafada	0.9665	0.9307	0.9330
relathe	0.9929	0.9858	0.9859
rice	0.9850	0.9700	0.9700
rocket	0.6885	0.3604	0.3769
RT_IOT2022	0.9826	0.9991	1.0000
satimage	0.8737	0.8651	0.8661
scadi	0.6600	0.6316	0.6667
schiller	0.4375	0.0000	0.0000
sclerosis	1.0000	1.0000	1.0000
secom	0.4834	0.0000	0.0000
secondary_mushroom	0.9997	0.9993	0.9993
seeds	0.9152	0.8571	0.8660
segment	0.9683	0.9595	0.9595
segmentation	0.8256	0.6412	0.6512
segmentO	0.9681	0.9342	0.9363
seismic	0.5502	0.0961	0.0986
sens-2-gram	0.6940	0.1618	0.2966
sens-3-gram	0.6772	0.0998	0.2292
sens-4-gram	0.5694	0.0500	0.0917
sensorless	0.9986	0.9985	0.9985
shoppers	0.8055	0.6109	0.6109
sick	0.7933	0.5835	0.5860
sirtuin6	1.0000	1.0000	1.0000
smarket	1.0000	1.0000	1.0000
smk_can_187	0.6833	0.3667	0.3667
smoking	0.7615	0.4934	0.5230
soil_pollution	0.1865	-0.0105	0.0000
solar-flare	0.5987	0.6844	0.6887
sonar	0.6741	0.3000	0.3464
soybean	0.9895	0.9839	0.9841
spam-detection	0.8671	0.7340	0.7341
spambase	0.9385	0.8767	0.8769
spect	0.7109	0.4186	0.4215
spectf	0.7200	0.4400	0.4400
spectrometer	0.4319	0.5198	0.5269
squash-unstored	1.0000	1.0000	1.0000
startup	1.0000	1.0000	1.0000
steel_industry	0.8513	0.8059	0.8061
stellar	0.9663	0.9475	0.9476
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Dataset	F1-macro	Kappa	MCC
stock	0.8036	0.6069	0.6071
stockb	1.0000	1.0000	1.0000
streaming	0.9312	0.8623	0.8624
stress	0.9679	0.9603	0.9603
student-depression	0.7935	0.5859	0.5869
student-habits	0.1791	0.0376	0.0402
student-lifestyle	0.3251	0.3375	0.3393
student-weekend	0.2529	0.1006	0.1067
student-workday	0.1630	-0.0159	0.0000
studentap	0.5392	0.2909	0.3021
swarm_aligned	0.9636	0.9265	0.9273
swarm_flocking	0.9634	0.9259	0.9268
swarm_grouped	0.9695	0.9377	0.9389
tae	0.4667	0.2000	0.2013
telco-churn	0.8729	0.7437	0.7458
texture	0.9796	0.9759	0.9760
theorem	0.8974	0.7934	0.7949
thoracic	0.6528	0.2863	0.3007
Thyroid_Diff	0.8683	0.7295	0.7363
tis	0.8007	0.5638	0.5979
titanic	0.7714	0.5247	0.5418
tourist	0.5250	0.6364	0.6848
trains	0.3333	0.0000	0.0000
transfusion	0.5071	0.0141	0.0141
tuandromd	0.9649	0.9290	0.9298
turkish	0.7958	0.7333	0.7352
tvnews	0.9495	0.8794	0.8829
ur3_cobotops_grip	0.6261	0.2505	0.2516
ur3_cobotops_stop	0.6812	0.3621	0.3624
urban	0.8436	0.8072	0.8104
ustilago10%	0.4925	-0.0004	0.0000
vehicle	0.6795	0.6311	0.6366
vote	0.9089	0.8143	0.8178
vowel	0.7027	0.6444	0.6553
wap-wc	0.4233	0.5843	0.6039
warpar10p	0.7151	0.7383	0.7537
warppie10p	1.0000	1.0000	1.0000
waveform	0.8524	0.7751	0.7784
weather-related	0.9726	0.9651	0.9653
weight-lift	0.9931	0.9919	0.9919
white-clover	0.6604	0.1818	0.3162
wifi-loc	0.9902	0.9867	0.9868
wilt	0.9371	0.8735	0.8742
wine	1.0000	1.0000	1.0000
winequality-red	0.3138	0.4261	0.4282
winequality-white	0.4001	0.4490	0.4505
winnipeg10%	0.9893	0.9825	0.9826
wisc.bc	0.9817	0.9627	0.9633
yale	0.5724	0.5983	0.6139
yeast	0.3801	0.4147	0.4197
yeastCYT-POX	0.9047	0.7897	0.8078
yeastEXC	0.4861	-0.0278	0.0000
yeastME1	0.7155	0.4272	0.4301
yeastME2	0.6387	0.2761	0.2770
zip	0.9214	0.9180	0.9181

Table 87: Detailed results for Crazier OVA 20

Dataset	F1-macro	Kappa	MCC
abalone	0.0990	0.0603	0.0613
abalone19	0.4976	-0.0036	0.0000
accelerometer	0.6256	0.1659	0.2143
ads	0.8866	0.7458	0.7711
adult	0.7655	0.4875	0.5292
advanced-iot	1.0000	1.0000	1.0000
AID_1431	0.4772	0.0000	0.0000
AID_1431_KlekotaRothFingerprinter	0.4750	-0.0148	0.0000
AID_1431_MACCSFingerprinter	0.4750	-0.0148	0.0000
AID_1878	0.4948	-0.0075	0.0000
AID_602330	0.4880	-0.0093	0.0000
AID_652128	0.3080	-0.0221	0.0000
AID1284red	0.7677	0.5355	0.5355
AID1608Morered	0.4798	-0.0173	0.0000
AID1608red	0.5299	0.0563	0.0584
AID362red	0.4800	-0.0235	0.0000
AID373AID439red	0.4984	-0.0003	0.0000
AID373red	0.5417	0.0322	0.0534
AID456red	0.4972	-0.0044	0.0000
AID604	0.5313	0.0107	0.0275
AID604AID644_AllRed	0.4976	-0.0018	0.0000
AID687AID721red	0.4958	-0.0012	0.0000
AID687red	0.4963	-0.0048	0.0000
AID688red	0.4942	-0.0111	0.0000
AID721morered	1.0000	1.0000	1.0000
AID721red	0.8333	0.6087	0.6614
AID746AID1284red	0.4977	-0.0018	0.0000
AID746red	0.5249	0.0498	0.0498
aids	0.8545	0.7048	0.7089
air_pollution	0.0826	0.0000	0.0000
alcohol	0.6158	0.6471	0.6581
all-aml	1.0000	1.0000	1.0000
anneal	0.9742	0.9538	0.9549
antivirus	1.0000	1.0000	1.0000
anuran-f-b	1.0000	1.0000	1.0000
anxiety	0.0925	-0.0236	0.0000
apple-quality	0.8136	0.6250	0.6273
aps-failure	0.6596	0.2283	0.2865
arabidopsis1%	0.4980	0.0000	0.0000
arcene	0.6926	0.3396	0.3852
arrhythmia	0.4105	0.2735	0.4018
auction	0.8555	0.6971	0.7099
audiology	0.5057	0.6913	0.7012
audit-risk	0.9869	0.9734	0.9737
autism-adolescent	0.9141	0.8136	0.8281
autism-adult	1.0000	1.0000	1.0000
autism-child	0.9348	0.8612	0.8697
autos	0.9064	0.8667	0.8758
avila	0.9977	0.9994	0.9994
balance	0.5872	0.4736	0.4738
bank	0.7521	0.5026	0.5039
bankruptcy	0.9606	0.9180	0.9211
bio	0.8237	0.6407	0.6463
biodeg	0.8470	0.6927	0.6940
biomed	1.0000	1.0000	1.0000
Continued on next page			

Dataset	F1-macro	Kappa	MCC
bitcoin10%	0.2882	0.3804	0.3807
body-perf	0.7074	0.6060	0.6105
brain-tumor	0.5144	0.0286	0.0289
breast-cancer	0.5944	0.1860	0.1886
breast-cancer-ma	0.6333	0.2667	0.2667
breast-tissue	0.7179	0.6733	0.6869
bridges	0.6061	0.7143	0.7470
bub12at310k-hg16-17	0.6910	0.3541	0.3746
cad	1.0000	1.0000	1.0000
cancer	1.0000	1.0000	1.0000
cancer-uae	0.3126	-0.0085	0.0000
car-insurance	0.8046	0.6047	0.6091
cardiotocography-nsp	0.8066	0.7166	0.7190
cardiovascular	0.7300	0.4559	0.4600
cargo2k	1.0000	1.0000	1.0000
cars	0.8236	0.7770	0.7801
ccds10%	0.5427	0.0481	0.0660
cdc_diabetes	0.4480	0.3165	0.3356
census	0.6755	0.2038	0.3159
cervical-B	0.7589	0.5147	0.5171
cervical-H	0.8269	0.6485	0.6530
cervical-S	0.8481	0.6446	0.6896
children-anemia	0.7857	0.8869	0.8889
chrom19	0.7564	0.4410	0.4936
chrom211%	0.4998	0.0000	0.0000
churn	0.7514	0.4975	0.5022
cjs	0.9945	0.9913	0.9913
ckd	1.0000	1.0000	1.0000
clave	0.6938	0.6394	0.6404
cll_sub_111	0.1667	0.0000	0.0000
cmc	0.5637	0.3509	0.3555
cnae-9	0.9561	0.9479	0.9487
codon_usage	0.6650	0.8194	0.8230
coil20	1.0000	1.0000	1.0000
college	0.9172	0.8338	0.8343
collins	0.8035	0.8897	0.8917
colon-tumor	0.8537	0.6667	0.7071
colposcopies-1	0.7197	0.4249	0.4385
colposcopies-2	0.6575	0.2478	0.3056
colposcopies-4	0.6667	0.3165	0.3310
colposcopies-5	0.4423	-0.0610	0.0000
colposcopies-c	0.7397	0.4487	0.4754
column-2c	0.8362	0.6578	0.6722
column-3c	0.7790	0.6890	0.7033
connect-4	0.6868	0.6146	0.6162
coupon	0.6648	0.3295	0.3296
covtype	0.9369	0.9092	0.9244
covtypeCD	0.9694	0.9388	0.9388
covtypeT	0.9189	0.8379	0.8379
crabs	0.7202	0.6000	0.6145
creditcard_trans	0.6049	0.0831	0.1421
crowdsourced	0.7228	0.8593	0.8612
cryotherapy	0.8163	0.5714	0.6325
cultivars	0.4955	0.5484	0.5551
cybersecurity	0.1774	0.0151	0.0151
cyclopentane	0.6657	0.3306	0.3315
cylinder-bands	0.7215	0.3946	0.4404
datatrieve	0.3810	-0.1404	0.0000
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Dataset	F1-macro	Kappa	MCC
dating	0.1069	0.0072	0.0072
dbworld	1.0000	1.0000	1.0000
default	0.7131	0.4211	0.4255
dementia	1.0000	1.0000	1.0000
deposit	0.7452	0.4893	0.4902
depressed	0.6649	0.0675	0.1869
dermatology	0.9429	0.9325	0.9325
desharnais	0.6972	0.3514	0.3617
df_final	0.7526	0.6049	0.6345
DIA	0.6659	0.2778	0.3207
diabetes-100k	0.8623	0.7004	0.7219
diagnosis	1.0000	1.0000	1.0000
diamonds	0.9588	0.9544	0.9559
diamonds_all	0.7180	0.6315	0.6389
dishonest	1.0000	1.0000	1.0000
dlbcl-nih	0.5143	0.0270	0.0286
dlbcl-stanford	0.7059	0.2857	0.4082
dna0.1%	0.4991	-0.0012	0.0000
dota2	0.5697	0.1206	0.1380
drebin	0.9542	0.9083	0.9083
dropout	0.6653	0.5858	0.5992
ecoli	0.6954	0.7942	0.7982
ecoliCP-IM	1.0000	1.0000	1.0000
ecoliM	0.8253	0.6341	0.6500
ecoliMU	0.7024	0.3678	0.3975
ecoliOM	0.6513	0.2747	0.2948
ecommerce	0.2518	0.0024	0.0024
euthyroid	0.9031	0.8061	0.8062
fakenews	0.5026	0.0051	0.0052
fbis-wc	0.7487	0.7354	0.7408
finance	0.7228	0.4457	0.4457
financial-risk	0.4650	0.5537	0.5894
flags	0.4205	0.6154	0.6239
forest	0.8750	0.8402	0.8446
gas	0.9945	0.9939	0.9939
gastrointestinal	0.7980	0.6690	0.7104
gender	0.4878	0.1724	0.1781
german	0.6322	0.2439	0.2621
gestures	0.8788	0.8379	0.8388
gina	0.8936	0.7868	0.7871
gisette	0.9204	0.8400	0.8409
glass	0.7176	0.6656	0.6722
glass-g2	0.8091	0.6129	0.6181
glassBWFP	0.8467	0.6897	0.6934
glassBWNFP	0.7698	0.5161	0.5394
glassContainers	1.0000	1.0000	1.0000
glassNW	0.8662	0.6957	0.7303
glassTableware	0.4500	-0.0732	0.0000
GlaucomaM	0.7978	0.5824	0.5955
gli_85	0.3846	-0.2000	0.0000
glioma	0.8333	0.7059	0.7500
glioma-grade	0.8845	0.7610	0.7689
green	0.5238	0.0476	0.0476
gsalc	0.9167	0.8657	0.8788
haberman	0.4886	-0.0227	0.0000
hapt	0.7951	0.9199	0.9203
har	0.9853	0.9826	0.9827
harth10%	0.5560	0.8133	0.8154
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Dataset	F1-macro	Kappa	MCC
health-activity	0.2175	0.0000	0.0000
heart	0.8118	0.6218	0.6236
heart-c	0.9674	0.9327	0.9349
heart-failure	0.9580	0.9159	0.9160
heart-quantum	0.9083	0.8000	0.8165
hepatitis	0.5379	0.0741	0.0754
higher	0.2205	0.0610	0.0625
hinselmann	0.4444	0.0000	0.0000
hitters	0.9373	0.8745	0.8745
hiv1-proteasa	0.7620	0.4643	0.5139
hiva	0.5399	0.0699	0.0753
horse	0.4383	0.0642	0.0927
hotel-reservartions	0.8617	0.7228	0.7233
hr	0.4602	-0.0199	0.0000
ht-sensor	0.9845	0.9766	0.9766
htru2	0.9315	0.8586	0.8628
hypothyroid	0.7273	0.9526	0.9526
immuno-therapy	0.6786	0.3571	0.3571
ionosphere	0.9038	0.8059	0.8076
iris	1.0000	1.0000	1.0000
irish	1.0000	1.0000	1.0000
isolet	0.8812	0.8745	0.8748
jm1	0.6218	0.2337	0.2414
jvowels	0.9645	0.9636	0.9637
kc1-class-level-numericdefect	0.1636	0.0000	0.0000
kc1-class-level-top5percentDF	0.4643	-0.0714	0.0000
kc2	0.7312	0.4595	0.4622
kdc-4007	0.8027	0.7672	0.7678
kddcup991%	0.8225	0.9969	0.9969
kidney	0.1778	0.0000	0.0000
kidney-disease	1.0000	1.0000	1.0000
la2s-wc	0.7326	0.6395	0.6722
labor	1.0000	1.0000	1.0000
leaf	0.6481	0.6597	0.6664
led24	0.4985	0.4857	0.4914
lenses	0.5714	0.5000	0.6124
letter	0.9414	0.9391	0.9392
linkage1%	0.9634	0.9266	0.9268
loan	0.9585	0.9162	0.9171
lrs	0.6405	0.8169	0.8256
lung_discrete	0.7652	0.8367	0.8549
lymphography	0.4934	0.4510	0.4560
lymphoma2	0.6027	0.6842	0.7120
machine-failure	0.9352	0.8695	0.8703
magic04	0.8388	0.6733	0.6775
malware	1.0000	1.0000	1.0000
mammography	0.8543	0.7080	0.7086
marketing	0.6442	0.2786	0.2861
mba	0.4158	0.2417	0.2437
mental-disorders	0.9270	0.8889	0.8972
messidor	0.6498	0.2988	0.2995
meter-A	0.8730	0.7143	0.7454
meter-B	0.7500	0.5263	0.6005
meter-C	1.0000	1.0000	1.0000
meter-D	0.9583	0.9234	0.9274
mfeat-fac	0.9505	0.9444	0.9447
mfeat-fou	0.7987	0.7778	0.7797
mfeat-kar	0.9609	0.9556	0.9557
Continued on next page			

Dataset	F1-macro	Kappa	MCC
mfeat-mor	0.7017	0.6667	0.6670
mfeat-pix	0.9854	0.9833	0.9834
mfeat-zer	0.7498	0.7278	0.7285
mice-prot	0.9705	0.9682	0.9687
milk	1.0000	1.0000	1.0000
mines	0.5464	0.4486	0.4541
mobile	0.9656	0.9644	0.9645
monks-1	1.0000	1.0000	1.0000
monks-3	0.9642	0.9285	0.9285
mushroom	1.0000	1.0000	1.0000
music	0.5086	0.3831	0.3883
MUT_ci300400a_cdk_ECFP2	0.7023	0.3581	0.4044
MUT_ci300400a_cdk_ECFP4	0.7170	0.3795	0.4338
MUT_ci300400a_cdk_ECFP6	0.6987	0.3460	0.3971
MUT_ci300400a_cdk_ESTATE	0.7415	0.4799	0.4830
MUT_ci300400a_cdk_EXTENDED	0.7535	0.4982	0.5071
MUT_ci300400a_cdk_FCFP2	0.7366	0.4694	0.4731
MUT_ci300400a_cdk_FCFP4	0.6864	0.3720	0.3728
MUT_ci300400a_cdk_FCFP6	0.6957	0.3348	0.3910
MUT_ci300400a_cdk_MACCS	0.7748	0.5485	0.5495
MUT_ci300400a_cdk_PUBCHEM	0.7908	0.5786	0.5816
MUT_ci300400a_cdk_STANDARD	0.7644	0.5236	0.5287
MUT_ci300400a_rdkit_descriptors	0.7621	0.5221	0.5241
myocardial	0.3025	0.3404	0.4552
naticusdroid	0.9544	0.9079	0.9088
nci9	0.7895	0.8000	0.8281
ncRNA10%	0.6721	0.8198	0.8222
neo	0.7347	0.3598	0.4530
new-thyroid	1.0000	1.0000	1.0000
new-thyroidT	1.0000	1.0000	1.0000
newspop	0.6662	0.3323	0.3323
NHANES_age_prediction	0.9919	0.9837	0.9838
nomao	0.9322	0.8639	0.8644
nursery	0.9192	0.9364	0.9368
obesity	0.9379	0.9280	0.9287
obs	0.9603	0.9456	0.9461
oh0-wc	0.9296	0.9211	0.9218
oh10-wc	0.7936	0.7505	0.7574
oh15-wc	0.8949	0.8758	0.8790
oh5-wc	0.8498	0.8256	0.8273
olive	0.9174	0.9123	0.9157
optdigits	0.9751	0.9703	0.9704
orlraws10P	1.0000	1.0000	1.0000
ozone1hr	0.4889	-0.0131	0.0000
p53-mutants10%	0.4992	0.0000	0.0000
parkinson	0.9915	0.9828	0.9830
particle	0.9054	0.8107	0.8108
pc1	0.6773	0.3432	0.3517
pcmac	0.3660	-0.0103	0.0000
pediatric-leukemia	0.6020	0.7047	0.7139
pendigits	0.9846	0.9828	0.9828
period-10f	0.5950	0.1818	0.1890
persistence	0.7780	0.5513	0.5559
personalities	0.9740	0.9723	0.9723
pet-adoption	0.8861	0.7610	0.7719
phishing	0.9318	0.8635	0.8636
PhiUSIL10%	0.9978	0.9957	0.9957
phy	0.6986	0.3955	0.3971
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Dataset	F1-macro	Kappa	MCC
pima	0.6259	0.2400	0.2510
pirvision	0.7293	0.5614	0.5974
placement	0.7830	0.5660	0.5661
plrx	0.5916	0.1509	0.1754
polya	0.7023	0.3731	0.4020
popularity	0.4954	0.2450	0.2734
post-operative	0.5000	0.0000	0.0000
postures	0.9857	0.9824	0.9824
pred-tox_mutagen_ref-desc	0.6324	0.2647	0.2648
prestige	0.8889	0.8302	0.8462
primary-tumor	0.3466	0.3252	0.3341
processed	0.9990	0.9980	0.9980
profb	0.6109	0.2193	0.2215
promoters	0.7143	0.2857	0.4082
puc-rio	0.9868	0.9898	0.9898
pufs-1281%	0.5135	0.0245	0.0269
pufs-6410%	0.4978	-0.0042	0.0000
pulsar	0.9510	0.9004	0.9020
raisin	0.8578	0.7111	0.7155
rejafada	1.0000	1.0000	1.0000
relathe	0.9929	0.9858	0.9859
rice	0.9850	0.9700	0.9700
rocket	0.6765	0.3512	0.3529
RT_IOT2022	0.9651	1.0000	0.9985
satimage	0.8699	0.8593	0.8604
scadi	0.6600	0.6316	0.6667
schiller	0.4375	0.0000	0.0000
sclerosis	1.0000	1.0000	1.0000
secom	0.4834	0.0000	0.0000
secondary_mushroom	0.9997	0.9993	0.9993
seeds	0.9152	0.8571	0.8660
segment	0.9646	0.9544	0.9545
segmentation	0.8266	0.6515	0.6533
segmentO	0.9681	0.9342	0.9363
seismic	0.5502	0.0961	0.0986
sens-2-gram	0.6687	0.0675	0.1869
sens-3-gram	0.6013	0.1055	0.1598
sens-4-gram	0.5970	0.1726	0.1870
sensorless	0.9985	0.9983	0.9983
shoppers	0.8123	0.6239	0.6246
sick	0.8353	0.6625	0.6695
sirtuin6	1.0000	1.0000	1.0000
smarket	0.9921	0.9840	0.9841
smk_can_187	0.6841	0.3596	0.3680
smoking	0.7659	0.5096	0.5316
soil_pollution	0.1491	-0.0597	0.0000
solar-flare	0.6953	0.6850	0.6908
sonar	0.6741	0.3000	0.3464
soybean	0.9860	0.9839	0.9841
spam-detection	0.8671	0.7340	0.7341
spambase	0.9339	0.8668	0.8679
spect	0.7109	0.4186	0.4215
spectf	0.7481	0.4948	0.4961
spectrometer	0.4049	0.4989	0.5053
squash-unstored	0.8333	0.6154	0.6667
startup	1.0000	1.0000	1.0000
steel_industry	0.8561	0.8140	0.8142
stellar	0.9662	0.9473	0.9474
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Dataset	F1-macro	Kappa	MCC
stock	0.8214	0.6426	0.6428
stockb	1.0000	1.0000	1.0000
streaming	0.9333	0.8660	0.8666
stress	0.9679	0.9603	0.9603
student-depression	0.7813	0.5599	0.5626
student-habits	0.1783	0.0348	0.0393
student-lifestyle	0.3313	0.3390	0.3405
student-weekend	0.1721	0.0914	0.1001
student-workday	0.1630	-0.0159	0.0000
studentap	0.5392	0.2909	0.3021
swarm_aligned	0.9597	0.9182	0.9193
swarm_flocking	0.9664	0.9326	0.9328
swarm_grouped	0.9690	0.9369	0.9381
tae	0.4055	0.1000	0.1007
telco-churn	0.8745	0.7461	0.7489
texture	0.9780	0.9739	0.9740
theorem	0.8961	0.7920	0.7922
thoracic	0.5992	0.1973	0.1981
Thyroid_Diff	0.8683	0.7295	0.7363
tis	0.8014	0.5707	0.6000
titanic	0.7714	0.5247	0.5418
tourist	0.5250	0.6364	0.6848
trains	0.3333	0.0000	0.0000
transfusion	0.5081	0.0157	0.0161
tuandromd	0.9753	0.9501	0.9507
turkish	0.8734	0.8333	0.8340
tvnews	0.8483	0.6947	0.6965
ur3_cobotops_grip	0.6437	0.2617	0.2784
ur3_cobotops_stop	0.6492	0.2745	0.2903
urban	0.8436	0.8072	0.8104
ustilago10%	0.4972	-0.0007	0.0000
vehicle	0.6989	0.6479	0.6550
vote	0.9307	0.8605	0.8615
vowel	0.6940	0.6333	0.6424
wap-wc	0.4536	0.5063	0.5445
warpar10p	0.5859	0.6510	0.6694
warppie10p	1.0000	1.0000	1.0000
waveform	0.8502	0.7721	0.7750
weather-related	0.9740	0.9673	0.9675
weight-lift	0.9930	0.9916	0.9916
white-clover	0.6604	0.1818	0.3162
wifi-loc	0.9902	0.9867	0.9868
wilt	0.9160	0.8313	0.8320
wine	1.0000	1.0000	1.0000
winequality-red	0.3162	0.4362	0.4383
winequality-white	0.3988	0.4702	0.4740
winnipeg10%	0.9894	0.9829	0.9830
wisc.bc	0.9817	0.9627	0.9633
yale	0.5641	0.6000	0.6209
yeast	0.3819	0.4152	0.4222
yeastCYT-POX	0.9047	0.7897	0.8078
yeastEXC	0.4879	-0.0237	0.0000
yeastME1	0.7431	0.4861	0.4861
yeastME2	0.6386	0.2055	0.2496
zip	0.9209	0.9180	0.9181

Table 88: Detailed results for Crazy OVO 20

Dataset	F1-macro	Kappa	MCC
abalone	0.0923	0.0602	0.0611
abalone19	0.4964	-0.0072	0.0000
accelerometer	0.6285	0.2034	0.2356
ads	0.9281	0.8543	0.8562
adult	0.7800	0.5297	0.5586
advanced-iot	1.0000	1.0000	1.0000
AID_1431	0.4750	-0.0148	0.0000
AID_1431_KlekotaRothFingerprinter	0.4728	-0.0276	0.0000
AID_1431_MACCSFingerprinter	0.4750	-0.0148	0.0000
AID_1878	0.5274	0.0458	0.0515
AID_602330	0.4880	-0.0093	0.0000
AID_652128	0.3060	-0.0356	0.0000
AID1284red	0.7677	0.5355	0.5355
AID1608Mored	0.5329	0.0656	0.0658
AID1608red	0.5249	0.0457	0.0482
AID362red	0.4710	-0.0251	0.0000
AID373AID439red	0.4879	-0.0003	0.0000
AID373red	0.5281	0.0045	0.0167
AID456red	0.4965	-0.0047	0.0000
AID604	0.6210	0.0218	0.0908
AID604AID644_AllRed	0.4912	-0.0020	0.0000
AID687AID721red	0.5923	0.0092	0.0466
AID687red	0.4867	-0.0057	0.0000
AID688red	0.4911	-0.0137	0.0000
AID721mored	1.0000	1.0000	1.0000
AID721red	0.8333	0.6087	0.6614
AID746AID1284red	0.4884	-0.0020	0.0000
AID746red	0.5160	0.0119	0.0201
aids	0.8401	0.6734	0.6798
air_pollution	0.0826	0.0000	0.0000
alcohol	0.5328	0.6435	0.6559
all-aml	0.8537	0.6667	0.7071
anneal	0.9742	0.9538	0.9549
antivirus	1.0000	1.0000	1.0000
anuran-f-b	1.0000	1.0000	1.0000
anxiety	0.1132	-0.0032	0.0000
apple-quality	0.8120	0.6100	0.6239
aps-failure	0.6479	0.2217	0.2687
arabidopsis1%	0.4980	0.0000	0.0000
arcene	0.6926	0.3396	0.3852
arrhythmia	0.3946	0.2720	0.3988
auction	0.9549	0.9056	0.9097
audiology	0.4750	0.6954	0.7033
audit-risk	0.9742	0.9470	0.9484
autism-adolescent	0.9141	0.8136	0.8281
autism-adult	1.0000	1.0000	1.0000
autism-child	0.9348	0.8612	0.8697
autos	0.8564	0.7980	0.8126
avila	0.9877	0.9975	0.9975
balance	0.5170	0.5184	0.5261
bank	0.7094	0.3875	0.4115
bankruptcy	0.9606	0.9180	0.9211
bio	0.8172	0.6255	0.6328
biodeg	0.8365	0.6706	0.6729
biomed	1.0000	1.0000	1.0000
Continued on next page			

Dataset	F1-macro	Kappa	MCC
bitcoin10%	0.2364	0.0882	0.1561
body-perf	0.6923	0.5831	0.5885
brain-tumor	0.5043	0.0059	0.0082
breast-cancer	0.5944	0.1860	0.1886
breast-cancer-ma	0.7243	0.4407	0.4485
breast-tissue	0.7179	0.6733	0.6869
bridges	0.5839	0.5946	0.6473
bub12at310k-hg16-17	0.6932	0.3704	0.3823
cad	1.0000	1.0000	1.0000
cancer	0.9844	0.9684	0.9688
cancer-uae	0.3054	-0.0271	0.0000
car-insurance	0.8049	0.6065	0.6097
cardiotocography-nsp	0.7975	0.6970	0.6986
cardiovascular	0.7312	0.4579	0.4624
cargo2k	1.0000	1.0000	1.0000
cars	0.7858	0.7330	0.7392
ccds10%	0.5427	0.0481	0.0660
cdc_diabetes	0.4471	0.3119	0.3325
census	0.7243	0.4403	0.4468
cervical-B	0.7589	0.5147	0.5171
cervical-H	0.8269	0.6485	0.6530
cervical-S	0.8481	0.6446	0.6896
children-anemia	0.8563	0.8976	0.8988
chrom19	0.8682	0.7356	0.7364
chrom211%	0.4998	0.0000	0.0000
churn	0.7306	0.4607	0.4611
cjs	0.9942	0.9913	0.9913
ckd	1.0000	1.0000	1.0000
clave	0.6688	0.6373	0.6373
cll_sub_111	0.5490	0.2800	0.4719
cmc	0.5367	0.3125	0.3143
cnae-9	0.9481	0.9375	0.9380
codon_usage	0.6950	0.8349	0.8374
coil20	1.0000	1.0000	1.0000
college	0.9172	0.8338	0.8343
collins	1.0000	1.0000	1.0000
colon-tumor	0.8537	0.6667	0.7071
colposcopies-1	0.7635	0.4942	0.5249
colposcopies-2	0.6059	0.1808	0.2076
colposcopies-4	0.7150	0.3873	0.4243
colposcopies-5	0.4528	0.0000	0.0000
colposcopies-c	0.7397	0.4487	0.4754
column-2c	0.8362	0.6578	0.6722
column-3c	0.7452	0.6395	0.6607
connect-4	0.6555	0.5587	0.5726
coupon	0.6472	0.2939	0.2945
covtype	0.9223	0.9377	0.9527
covtypeCD	0.9657	0.9312	0.9313
covtypeT	0.8842	0.7593	0.7675
crabs	0.7649	0.6667	0.6734
creditcard_trans	0.6062	0.0885	0.1472
crowdsourced	0.7165	0.8427	0.8466
cryotherapy	0.8163	0.5714	0.6325
cultivars	0.4368	0.4516	0.4572
cybersecurity	0.1696	0.0035	0.0036
cyclopentane	0.6326	0.2623	0.2652
cylinder-bands	0.6968	0.3806	0.3936
datatrieve	0.3810	-0.1404	0.0000
Continued on next page			

Dataset	F1-macro	Kappa	MCC
dating	0.1125	0.0145	0.0158
dbworld	1.0000	1.0000	1.0000
default	0.7106	0.4143	0.4203
dementia	1.0000	1.0000	1.0000
deposit	0.6979	0.3375	0.3807
depressed	0.4542	0.0000	0.0000
dermatology	0.9429	0.9325	0.9325
desharnais	0.6972	0.3514	0.3617
df_final	0.7551	0.6049	0.6345
DIA	0.6659	0.2778	0.3207
diabetes-100k	0.8182	0.5604	0.6239
diagnosis	1.0000	1.0000	1.0000
diamonds	0.9777	0.9771	0.9775
diamonds_all	0.7328	0.6441	0.6472
dishonest	1.0000	1.0000	1.0000
dlbcl-nih	0.4286	-0.1351	0.0000
dlbcl-stanford	0.2857	0.0000	0.0000
dna0.1%	0.4989	-0.0019	0.0000
dota2	0.5642	0.1282	0.1285
drebin	0.9316	0.8594	0.8631
dropout	0.6541	0.5596	0.5657
ecoli	0.7465	0.8359	0.8380
ecoliCP-IM	1.0000	1.0000	1.0000
ecoliM	0.8253	0.6341	0.6500
ecoliMU	0.6810	0.3125	0.3516
ecoliOM	0.6296	0.2180	0.2469
ecommerce	0.2622	0.0082	0.0086
euthyroid	0.8763	0.7497	0.7524
fakenews	0.4705	-0.0575	0.0000
fbis-wc	0.7414	0.7364	0.7387
finance	0.7228	0.4457	0.4457
financial-risk	0.4691	0.5581	0.5949
flags	0.4554	0.6785	0.6926
forest	0.8906	0.8669	0.8710
gas	0.9935	0.9930	0.9930
gastrointestinal	0.5359	0.4161	0.5135
gender	0.4918	0.1984	0.2040
german	0.6712	0.3017	0.3377
gestures	0.8725	0.8277	0.8292
gina	0.8668	0.7186	0.7336
gisette	0.9236	0.8429	0.8471
glass	0.7366	0.7316	0.7341
glass-g2	0.8091	0.6129	0.6181
glassBWFP	0.8467	0.6897	0.6934
glassBWNFP	0.7361	0.4375	0.4719
glassContainers	0.8986	0.7755	0.7958
glassNW	0.8662	0.6957	0.7303
glassTableware	0.7471	0.3529	0.4629
GlaucomaM	0.7978	0.5824	0.5955
gli_85	0.5749	0.1429	0.1491
glioma	0.8333	0.7059	0.7500
glioma-grade	0.8845	0.7610	0.7689
green	0.5238	0.0476	0.0476
gsalc	0.9167	0.8657	0.8788
haberman	0.4671	-0.0656	0.0000
hapt	0.7860	0.9188	0.9191
har	0.9862	0.9839	0.9839
harth10%	0.5996	0.8124	0.8128
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Dataset	F1-macro	Kappa	MCC
health-activity	0.2175	0.0000	0.0000
heart	0.8118	0.6218	0.6236
heart-c	0.9674	0.9327	0.9349
heart-failure	0.9532	0.9059	0.9065
heart-quantum	0.9083	0.8000	0.8165
hepatitis	0.8077	0.5455	0.6124
higher	0.2205	0.0610	0.0625
hinselmann	0.4118	-0.1538	0.0000
hitters	0.9373	0.8745	0.8745
hiv1-proteasa	0.7250	0.4044	0.4412
hiva	0.5392	0.0769	0.0777
horse	0.4383	0.0642	0.0927
hotel-reservartions	0.8648	0.7288	0.7295
hr	0.4612	-0.0135	0.0000
ht-sensor	0.9865	0.9794	0.9795
htru2	0.9258	0.8445	0.8513
hypothyroid	0.7202	0.9199	0.9200
immuno-therapy	0.6786	0.3571	0.3571
ionosphere	0.9038	0.8059	0.8076
iris	1.0000	1.0000	1.0000
irish	1.0000	1.0000	1.0000
isolet	0.8865	0.8785	0.8789
jm1	0.6229	0.2355	0.2435
jvowels	0.9592	0.9579	0.9580
kc1-class-level-numericdefect	0.1636	0.0000	0.0000
kc1-class-level-top5percentDF	0.4444	-0.0976	0.0000
kc2	0.7312	0.4595	0.4622
kdc-4007	0.5534	0.3735	0.4109
kddcup991%	0.8926	0.9983	0.9983
kidney	0.1778	0.0000	0.0000
kidney-disease	1.0000	1.0000	1.0000
la2s-wc	0.7874	0.7266	0.7369
labor	1.0000	1.0000	1.0000
leaf	0.6017	0.6600	0.6704
led24	0.5735	0.4886	0.5001
lenses	0.5714	0.5000	0.6124
letter	0.9377	0.9339	0.9341
linkage1%	0.9634	0.9266	0.9268
loan	0.9562	0.9114	0.9125
lrs	0.6045	0.7666	0.7737
lung_discrete	0.7652	0.8367	0.8549
lymphography	0.4934	0.4510	0.4560
lymphoma2	0.4194	0.5000	0.5511
machine-failure	0.9352	0.8695	0.8703
magic04	0.8390	0.6679	0.6777
malware	1.0000	1.0000	1.0000
mammography	0.8543	0.7080	0.7086
marketing	0.6807	0.3572	0.3606
mba	0.4303	0.2796	0.2826
mental-disorders	0.9270	0.8889	0.8972
messidor	0.5993	0.1804	0.1986
meter-A	0.7333	0.4667	0.4667
meter-B	0.7500	0.5263	0.6005
meter-C	1.0000	1.0000	1.0000
meter-D	0.9583	0.9234	0.9274
mfeat-fac	0.9504	0.9444	0.9446
mfeat-fou	0.8041	0.7778	0.7786
mfeat-kar	0.9576	0.9500	0.9505
Continued on next page			

Dataset	F1-macro	Kappa	MCC
mfeat-mor	0.6889	0.6611	0.6632
mfeat-pix	0.9755	0.9722	0.9723
mfeat-zer	0.7917	0.7722	0.7730
mice-prot	1.0000	1.0000	1.0000
milk	1.0000	1.0000	1.0000
mines	0.6368	0.5584	0.5609
mobile	0.9521	0.9466	0.9468
monks-1	1.0000	1.0000	1.0000
monks-3	0.9642	0.9285	0.9285
mushroom	1.0000	1.0000	1.0000
music	0.5348	0.3892	0.3913
MUT_ci300400a_cdk_ECFP2	0.7450	0.4736	0.4901
MUT_ci300400a_cdk_ECFP4	0.7795	0.5402	0.5590
MUT_ci300400a_cdk_ECFP6	0.7283	0.4451	0.4566
MUT_ci300400a_cdk_ESTATE	0.7284	0.4495	0.4568
MUT_ci300400a_cdk_EXTENDED	0.7604	0.5121	0.5208
MUT_ci300400a_cdk_FCFP2	0.7873	0.5703	0.5745
MUT_ci300400a_cdk_FCFP4	0.7372	0.4590	0.4744
MUT_ci300400a_cdk_FCFP6	0.7528	0.4837	0.5056
MUT_ci300400a_cdk_MACCS	0.7850	0.5642	0.5700
MUT_ci300400a_cdk_PUBCHEM	0.7896	0.5712	0.5791
MUT_ci300400a_cdk_STANDARD	0.7372	0.4679	0.4743
MUT_ci300400a_rdkit_descriptors	0.7682	0.5268	0.5365
myocardial	0.3102	0.3867	0.4911
naticusdroid	0.9588	0.9175	0.9177
nci9	0.7895	0.8000	0.8281
ncRNA10%	0.6420	0.7947	0.8015
neo	0.7331	0.3556	0.4496
new-thyroid	1.0000	1.0000	1.0000
new-thyroidT	0.9211	0.8293	0.8416
newspop	0.6465	0.2637	0.2926
NHANES_age_prediction	0.9919	0.9837	0.9838
nomao	0.9294	0.8588	0.8588
nursery	0.9095	0.9258	0.9273
obesity	0.9401	0.9280	0.9294
obs	0.9507	0.9455	0.9471
oh0-wc	0.8083	0.7952	0.7971
oh10-wc	0.7125	0.7264	0.7307
oh15-wc	0.6798	0.6608	0.6691
oh5-wc	0.8444	0.7871	0.7933
olive	0.9174	0.9123	0.9157
optdigits	0.9613	0.9545	0.9546
orlraws10P	1.0000	1.0000	1.0000
ozone1hr	0.4889	-0.0131	0.0000
p53-mutants10%	0.4992	0.0000	0.0000
parkinson	0.9750	0.9487	0.9500
particle	0.9028	0.8045	0.8055
pc1	0.7121	0.3995	0.4188
pcmac	0.5347	0.0586	0.0679
pediatric-leukemia	0.5813	0.6685	0.6756
pendigits	0.9854	0.9838	0.9838
period-10f	0.7568	0.4000	0.5000
persistence	0.7944	0.5882	0.5888
personalities	0.9568	0.9538	0.9538
pet-adoption	0.8861	0.7610	0.7719
phishing	0.9357	0.8713	0.8713
PhiUSIL10%	0.9927	0.9852	0.9854
phy	0.6950	0.3864	0.3900
Continued on next page			

Dataset	F1-macro	Kappa	MCC
pima	0.7044	0.4045	0.4086
pirvision	0.9388	0.9101	0.9113
placement	0.7791	0.5583	0.5583
plrx	0.5916	0.1509	0.1754
polya	0.7202	0.4388	0.4403
popularity	0.5443	0.2501	0.2697
post-operative	0.5000	0.0000	0.0000
postures	0.9820	0.9777	0.9778
pred-tox_mutagen_ref-desc	0.7254	0.4412	0.4508
prestige	0.8889	0.8302	0.8462
primary-tumor	0.4646	0.4557	0.4629
processed	0.9984	0.9968	0.9968
profb	0.6278	0.2556	0.2556
promoters	0.8077	0.5455	0.6124
puc-rio	0.9855	0.9891	0.9892
pufs-1281%	0.4952	-0.0007	0.0000
pufs-6410%	0.5029	0.0052	0.0058
pulsar	0.9382	0.8729	0.8762
raisin	0.8578	0.7111	0.7155
rejafada	0.9665	0.9307	0.9330
relathe	0.9929	0.9858	0.9859
rice	0.9856	0.9711	0.9711
rocket	0.6742	0.3259	0.3484
RT_IOT2022	0.9450	0.9894	0.9894
satimage	0.8747	0.8653	0.8660
scadi	0.6600	0.6316	0.6667
schiller	0.4375	0.0000	0.0000
sclerosis	1.0000	1.0000	1.0000
secom	0.4834	0.0000	0.0000
secondary_mushroom	0.9997	0.9993	0.9993
seeds	0.9152	0.8571	0.8660
segment	0.9728	0.9646	0.9648
segmentation	0.8418	0.6822	0.6836
segmentO	0.9472	0.8888	0.8943
seismic	0.5502	0.0961	0.0986
sens-2-gram	0.6856	0.1312	0.2650
sens-3-gram	0.6687	0.0675	0.1869
sens-4-gram	0.5694	0.0500	0.0917
sensorless	0.9980	0.9977	0.9977
shoppers	0.8062	0.6094	0.6120
sick	0.8318	0.6478	0.6613
sirtuin6	1.0000	1.0000	1.0000
smarket	0.9921	0.9840	0.9841
smk_can_187	0.6833	0.3667	0.3667
smoking	0.7614	0.4959	0.5227
soil_pollution	0.1720	-0.0299	0.0000
solar-flare	0.6998	0.7154	0.7243
sonar	0.6573	0.3000	0.3145
soybean	0.9742	0.9678	0.9683
spam-detection	0.8671	0.7340	0.7341
spambase	0.9387	0.8774	0.8774
spect	0.7109	0.4186	0.4215
spectf	0.7046	0.4043	0.4088
spectrometer	0.4265	0.5002	0.5052
squash-unstored	1.0000	1.0000	1.0000
startup	1.0000	1.0000	1.0000
steel_industry	0.8477	0.8018	0.8020
stellar	0.9648	0.9451	0.9454
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Dataset	F1-macro	Kappa	MCC
stock	0.7976	0.5950	0.5951
stockb	0.9956	0.9934	0.9934
streaming	0.9252	0.8503	0.8503
stress	0.9679	0.9603	0.9603
student-depression	0.7902	0.5784	0.5803
student-habits	0.2681	0.0305	0.0323
student-lifestyle	0.3290	0.3440	0.3452
student-weekend	0.1916	0.1400	0.1666
student-workday	0.1630	-0.0159	0.0000
studentap	0.5556	0.2909	0.3181
swarm_aligned	0.9718	0.9436	0.9436
swarm_flocking	0.9677	0.9351	0.9353
swarm_grouped	0.9784	0.9567	0.9569
tae	0.3944	0.1000	0.1021
telco-churn	0.8743	0.7481	0.7486
texture	0.9811	0.9779	0.9780
theorem	0.9034	0.8061	0.8068
thoracic	0.5713	0.1215	0.1352
Thyroid_Diff	0.8683	0.7295	0.7363
tis	0.8141	0.6059	0.6264
titanic	0.7449	0.4827	0.4894
tourist	0.5250	0.6364	0.6848
trains	0.3333	0.0000	0.0000
transfusion	0.5158	0.0316	0.0316
tuandromd	0.9688	0.9363	0.9375
turkish	0.8760	0.8333	0.8361
tvnews	0.8277	0.6423	0.6553
ur3_cobotops_grip	0.6580	0.2989	0.3104
ur3_cobotops_stop	0.6940	0.3643	0.3810
urban	0.8600	0.8248	0.8270
ustilago10%	0.4972	-0.0007	0.0000
vehicle	0.7128	0.6767	0.6801
vote	0.9089	0.8143	0.8178
vowel	0.7575	0.6889	0.7003
wap-wc	0.4880	0.6655	0.6762
warpar10p	0.5859	0.6510	0.6694
warppie10p	1.0000	1.0000	1.0000
waveform	0.8426	0.7631	0.7640
weather-related	0.9724	0.9673	0.9675
weight-lift	0.9947	0.9936	0.9936
white-clover	0.6604	0.1818	0.3162
wifi-loc	0.9854	0.9800	0.9803
wilt	0.9174	0.8267	0.8343
wine	1.0000	1.0000	1.0000
winequality-red	0.3012	0.3902	0.3931
winequality-white	0.3816	0.4322	0.4363
winnipeg10%	0.9912	0.9860	0.9860
wisc.bc	0.9817	0.9627	0.9633
yale	0.5106	0.5333	0.5544
yeast	0.3456	0.4177	0.4219
yeastCYT-POX	0.9047	0.7897	0.8078
yeastEXC	0.6001	0.1981	0.1995
yeastME1	0.6808	0.3410	0.3554
yeastME2	0.6564	0.3060	0.3107
zip	0.9220	0.9192	0.9193

Table 89: Detailed results for Crazier OVO 20

Dataset	F1-macro	Kappa	MCC
abalone	0.0916	0.0666	0.0676
abalone19	0.4976	-0.0036	0.0000
accelerometer	0.6256	0.1659	0.2143
ads	0.9229	0.8455	0.8458
adult	0.7658	0.4886	0.5298
advanced-iot	1.0000	1.0000	1.0000
AID_1431	0.4772	0.0000	0.0000
AID_1431_KlekotaRothFingerprinter	0.4728	-0.0276	0.0000
AID_1431_MACCSFingerprinter	0.4728	-0.0276	0.0000
AID_1878	0.5065	0.0086	0.0111
AID_602330	0.4880	-0.0093	0.0000
AID_652128	0.3099	-0.0118	0.0000
AID1284red	0.7677	0.5355	0.5355
AID1608Morered	0.5965	0.1660	0.1826
AID1608red	0.5354	0.0682	0.0698
AID362red	0.4768	-0.0242	0.0000
AID373AID439red	0.4935	-0.0003	0.0000
AID373red	0.5334	0.0089	0.0254
AID456red	0.4965	-0.0047	0.0000
AID604	0.6216	0.0223	0.0920
AID604AID644_AllRed	0.4919	-0.0019	0.0000
AID687AID721red	0.5968	0.0148	0.0602
AID687red	0.4913	-0.0055	0.0000
AID688red	0.4914	-0.0136	0.0000
AID721morered	1.0000	1.0000	1.0000
AID721red	0.8333	0.6087	0.6614
AID746AID1284red	0.4931	-0.0019	0.0000
AID746red	0.5252	0.0302	0.0397
aids	0.8483	0.6934	0.6965
air_pollution	0.0826	0.0000	0.0000
alcohol	0.5567	0.6730	0.7011
all-aml	1.0000	1.0000	1.0000
anneal	0.9742	0.9538	0.9549
antivirus	1.0000	1.0000	1.0000
anuran-f-b	1.0000	1.0000	1.0000
anxiety	0.1107	-0.0056	0.0000
apple-quality	0.8154	0.6250	0.6308
aps-failure	0.6603	0.2307	0.2884
arabidopsis1%	0.4980	0.0000	0.0000
arcene	0.6926	0.3396	0.3852
arrhythmia	0.4111	0.3317	0.4479
auction	0.8435	0.6686	0.6855
audiology	0.4750	0.6954	0.7033
audit-risk	0.9869	0.9734	0.9737
autism-adolescent	0.9141	0.8136	0.8281
autism-adult	1.0000	1.0000	1.0000
autism-child	0.9348	0.8612	0.8697
autos	0.8564	0.7980	0.8126
avila	0.9927	0.9981	0.9981
balance	0.5619	0.4566	0.4569
bank	0.7460	0.4918	0.4919
bankruptcy	0.9606	0.9180	0.9211
bio	0.8237	0.6407	0.6463
biodeg	0.8365	0.6706	0.6729
biomed	1.0000	1.0000	1.0000
Continued on next page			

Dataset	F1-macro	Kappa	MCC
bitcoin10%	0.2845	0.1824	0.2244
body-perf	0.7000	0.5960	0.5998
brain-tumor	0.5084	0.0162	0.0168
breast-cancer	0.6210	0.2410	0.2418
breast-cancer-ma	0.5345	0.0678	0.0690
breast-tissue	0.7179	0.6733	0.6869
bridges	0.6061	0.7143	0.7470
bub12at310k-hg16-17	0.6908	0.3499	0.3732
cad	1.0000	1.0000	1.0000
cancer	1.0000	1.0000	1.0000
cancer-uae	0.3041	-0.0310	0.0000
car-insurance	0.8032	0.6021	0.6063
cardiotocography-nsp	0.7984	0.7081	0.7094
cardiovascular	0.7274	0.4507	0.4547
cargo2k	1.0000	1.0000	1.0000
cars	0.7790	0.7324	0.7354
ccds10%	0.5427	0.0481	0.0660
cdc_diabetes	0.4463	0.3151	0.3312
census	0.7425	0.5011	0.4897
cervical-B	0.7589	0.5147	0.5171
cervical-H	0.8269	0.6485	0.6530
cervical-S	0.8481	0.6446	0.6896
children-anemia	0.8239	0.8929	0.8944
chrom19	0.7828	0.5218	0.5556
chrom211%	0.4998	0.0000	0.0000
churn	0.7426	0.4798	0.4846
cjs	0.9942	0.9913	0.9913
ckd	1.0000	1.0000	1.0000
clave	0.6689	0.6352	0.6353
cll_sub_111	0.4553	0.2174	0.3371
cmc	0.5475	0.3249	0.3286
cnae-9	0.9481	0.9375	0.9380
codon_usage	0.6892	0.8368	0.8391
coil20	1.0000	1.0000	1.0000
college	0.9172	0.8338	0.8343
collins	1.0000	1.0000	1.0000
colon-tumor	0.8537	0.6667	0.7071
colposcopies-1	0.6821	0.3591	0.3638
colposcopies-2	0.6575	0.2478	0.3056
colposcopies-4	0.6667	0.3165	0.3310
colposcopies-5	0.4528	0.0000	0.0000
colposcopies-c	0.6919	0.3741	0.3825
column-2c	0.8362	0.6578	0.6722
column-3c	0.7225	0.6347	0.6424
connect-4	0.6797	0.6179	0.6186
coupon	0.6593	0.3187	0.3187
covtype	0.9337	0.9111	0.9371
covtypeCD	0.9685	0.9370	0.9370
covtypeT	0.9187	0.8368	0.8374
crabs	0.7649	0.6667	0.6734
creditcard_trans	0.6035	0.0918	0.1472
crowdsourced	0.7194	0.8565	0.8588
cryotherapy	0.8163	0.5714	0.6325
cultivars	0.4277	0.4516	0.4581
cybersecurity	0.1615	-0.0073	0.0000
cyclopentane	0.6657	0.3306	0.3315
cylinder-bands	0.7221	0.4414	0.4442
datatrieve	0.3810	-0.1404	0.0000
Continued on next page			

Dataset	F1-macro	Kappa	MCC
dating	0.1104	0.0108	0.0109
dbworld	1.0000	1.0000	1.0000
default	0.7105	0.4143	0.4201
dementia	1.0000	1.0000	1.0000
deposit	0.7405	0.4790	0.4806
depressed	0.6649	0.0675	0.1869
dermatology	0.9429	0.9325	0.9325
desharnais	0.6972	0.3514	0.3617
df_final	0.7551	0.6049	0.6345
DIA	0.7302	0.3889	0.4491
diabetes-100k	0.8821	0.7343	0.7613
diagnosis	1.0000	1.0000	1.0000
diamonds	1.0000	1.0000	1.0000
diamonds_all	0.7404	0.6501	0.6525
dishonest	1.0000	1.0000	1.0000
dlbcl-nih	0.6202	0.2394	0.2403
dlbcl-stanford	0.8216	0.6237	0.6733
dna0.1%	0.4991	-0.0012	0.0000
dota2	0.5616	0.1226	0.1232
drebin	0.9370	0.8716	0.8740
dropout	0.6555	0.5711	0.5796
ecoli	0.7465	0.8359	0.8380
ecoliCP-IM	1.0000	1.0000	1.0000
ecoliM	0.8253	0.6341	0.6500
ecoliMU	0.7292	0.4359	0.4543
ecoliOM	0.6296	0.2180	0.2469
ecommerce	0.2091	-0.0531	0.0000
euthyroid	0.8855	0.7708	0.7709
fakenews	0.4546	-0.0907	0.0000
fbis-wc	0.7434	0.7406	0.7428
finance	0.7418	0.4832	0.4836
financial-risk	0.4622	0.5482	0.5842
flags	0.4554	0.6785	0.6926
forest	0.8906	0.8669	0.8710
gas	0.9947	0.9939	0.9939
gastrointestinal	0.4936	0.2836	0.4040
gender	0.5103	0.2112	0.2208
german	0.6151	0.2020	0.2260
gestures	0.8816	0.8413	0.8422
gina	0.9107	0.8213	0.8214
gisette	0.9302	0.8600	0.8604
glass	0.7366	0.7316	0.7341
glass-g2	0.8091	0.6129	0.6181
glassBWFP	0.8467	0.6897	0.6934
glassBWNFP	0.7361	0.4375	0.4719
glassContainers	1.0000	1.0000	1.0000
glassNW	0.9340	0.8591	0.8677
glassTableware	0.7471	0.3529	0.4629
GlaucomaM	0.7978	0.5824	0.5955
gli_85	0.3846	-0.2000	0.0000
glioma	0.8333	0.7059	0.7500
glioma-grade	0.8845	0.7610	0.7689
green	0.5238	0.0476	0.0476
gsalc	0.9167	0.8657	0.8788
haberman	0.4886	-0.0227	0.0000
hapt	0.8236	0.9199	0.9201
har	0.9873	0.9852	0.9852
harth10%	0.5962	0.8153	0.8159
Continued on next page			

Dataset	F1-macro	Kappa	MCC
health-activity	0.2175	0.0000	0.0000
heart	0.7794	0.5525	0.5587
heart-c	0.9067	0.7964	0.8134
heart-failure	0.9580	0.9159	0.9160
heart-quantum	0.9083	0.8000	0.8165
hepatitis	0.8077	0.5455	0.6124
higher	0.1765	-0.0120	0.0000
hinselmann	0.4444	0.0000	0.0000
hitters	0.9373	0.8745	0.8745
hiv1-proteasa	0.7294	0.4149	0.4506
hiva	0.5200	0.0398	0.0399
horse	0.4383	0.0642	0.0927
hotel-reservartions	0.8584	0.7166	0.7167
hr	0.4623	-0.0069	0.0000
ht-sensor	0.9870	0.9805	0.9805
htru2	0.9296	0.8546	0.8590
hypothyroid	0.7092	0.9210	0.9210
immuno-therapy	0.6786	0.3571	0.3571
ionosphere	0.9038	0.8059	0.8076
iris	1.0000	1.0000	1.0000
irish	1.0000	1.0000	1.0000
isolet	0.8783	0.8705	0.8708
jm1	0.6183	0.2269	0.2344
jvowels	0.9619	0.9602	0.9603
kc1-class-level-numericdefect	0.1636	0.0000	0.0000
kc1-class-level-top5percentDF	0.4643	-0.0714	0.0000
kc2	0.7312	0.4595	0.4622
kdc-4007	0.5276	0.3433	0.3762
kddcup991%	0.8926	0.9983	0.9983
kidney	0.1778	0.0000	0.0000
kidney-disease	1.0000	1.0000	1.0000
la2s-wc	0.7936	0.7307	0.7397
labor	1.0000	1.0000	1.0000
leaf	0.6461	0.6903	0.6993
led24	0.6782	0.6011	0.6064
lenses	0.5714	0.5000	0.6124
letter	0.9386	0.9355	0.9356
linkage1%	0.9634	0.9266	0.9268
loan	0.9609	0.9210	0.9217
lrs	0.6139	0.7917	0.8004
lung_discrete	0.7652	0.8367	0.8549
lymphography	0.4934	0.4510	0.4560
lymphoma2	0.4194	0.5000	0.5511
machine-failure	0.9352	0.8695	0.8703
magic04	0.8394	0.6734	0.6786
malware	1.0000	1.0000	1.0000
mammography	0.8543	0.7080	0.7086
marketing	0.6655	0.3198	0.3284
mba	0.4131	0.2365	0.2371
mental-disorders	0.8537	0.7778	0.7926
messidor	0.6266	0.2513	0.2532
meter-A	0.8730	0.7143	0.7454
meter-B	0.7500	0.5263	0.6005
meter-C	1.0000	1.0000	1.0000
meter-D	0.9583	0.9234	0.9274
mfeat-fac	0.9504	0.9444	0.9446
mfeat-fou	0.8025	0.7778	0.7790
mfeat-kar	0.9581	0.9500	0.9506
Continued on next page			

Dataset	F1-macro	Kappa	MCC
mfeat-mor	0.6891	0.6556	0.6559
mfeat-pix	0.9657	0.9611	0.9613
mfeat-zer	0.8007	0.7833	0.7846
mice-prot	1.0000	1.0000	1.0000
milk	1.0000	1.0000	1.0000
mines	0.6368	0.5584	0.5609
mobile	0.9438	0.9395	0.9397
monks-1	1.0000	1.0000	1.0000
monks-3	0.9642	0.9285	0.9285
mushroom	1.0000	1.0000	1.0000
music	0.5220	0.3851	0.3870
MUT_ci300400a_cdk_ECFP2	0.7515	0.4938	0.5031
MUT_ci300400a_cdk_ECFP4	0.7721	0.5332	0.5442
MUT_ci300400a_cdk_ECFP6	0.7426	0.4824	0.4852
MUT_ci300400a_cdk_ESTATE	0.7318	0.4605	0.4635
MUT_ci300400a_cdk_EXTENDED	0.7607	0.5182	0.5213
MUT_ci300400a_cdk_FCFP2	0.7923	0.5834	0.5846
MUT_ci300400a_cdk_FCFP4	0.7250	0.4392	0.4501
MUT_ci300400a_cdk_FCFP6	0.7474	0.4796	0.4949
MUT_ci300400a_cdk_MACCS	0.7857	0.5685	0.5715
MUT_ci300400a_cdk_PUBCHEM	0.7802	0.5582	0.5603
MUT_ci300400a_cdk_STANDARD	0.7562	0.5117	0.5124
MUT_ci300400a_rdkit_descriptors	0.7690	0.5343	0.5380
myocardial	0.3102	0.3867	0.4911
naticusdroid	0.9606	0.9209	0.9212
nci9	0.7895	0.8000	0.8281
ncRNA10%	0.6622	0.8108	0.8150
neo	0.7337	0.3580	0.4510
new-thyroid	1.0000	1.0000	1.0000
new-thyroidT	1.0000	1.0000	1.0000
newspop	0.6567	0.3124	0.3133
NHANES_age_prediction	0.9919	0.9837	0.9838
nomao	0.9232	0.8457	0.8465
nursery	0.9323	0.9368	0.9377
obesity	0.9379	0.9280	0.9287
obs	0.9484	0.9321	0.9327
oh0-wc	0.8344	0.8182	0.8200
oh10-wc	0.7042	0.7259	0.7312
oh15-wc	0.6769	0.6601	0.6702
oh5-wc	0.8444	0.7871	0.7933
olive	0.9385	0.9343	0.9362
optdigits	0.9610	0.9545	0.9546
orlraws10P	1.0000	1.0000	1.0000
ozone1hr	0.4889	-0.0131	0.0000
p53-mutants10%	0.4992	0.0000	0.0000
parkinson	0.9915	0.9828	0.9830
particle	0.9035	0.8067	0.8069
pc1	0.6879	0.3683	0.3739
pcmac	0.5094	0.0132	0.0175
pediatric-leukemia	0.5881	0.6670	0.6814
pendigits	0.9853	0.9838	0.9839
period-10f	0.7568	0.4000	0.5000
persistence	0.7773	0.5541	0.5546
personalities	0.9562	0.9532	0.9533
pet-adoption	0.8804	0.7480	0.7604
phishing	0.9318	0.8635	0.8636
PhiUSIL10%	0.9944	0.9887	0.9888
phy	0.7046	0.4086	0.4092
Continued on next page			

Dataset	F1-macro	Kappa	MCC
pima	0.6580	0.3070	0.3155
pirvision	0.9280	0.8985	0.8985
placement	0.7772	0.5545	0.5545
plrx	0.4000	-0.1020	0.0000
polya	0.7035	0.3799	0.4049
popularity	0.5373	0.2269	0.2623
post-operative	0.5000	0.0000	0.0000
postures	0.9829	0.9789	0.9789
pred-tox_mutagen_ref-desc	0.6324	0.2647	0.2648
prestige	0.8889	0.8302	0.8462
primary-tumor	0.4828	0.4897	0.5001
processed	0.9981	0.9962	0.9962
profb	0.5412	0.0792	0.0819
promoters	0.7143	0.2857	0.4082
puc-rio	0.9869	0.9904	0.9904
pufs-1281%	0.5052	0.0085	0.0103
pufs-6410%	0.5006	0.0013	0.0013
pulsar	0.9459	0.8895	0.8917
raisin	0.8578	0.7111	0.7155
rejafada	0.9665	0.9307	0.9330
relathe	0.9929	0.9858	0.9859
rice	0.9850	0.9700	0.9700
rocket	0.6824	0.3595	0.3647
RT_IOT2022	0.9896	0.9821	0.9814
satimage	0.8748	0.8653	0.8660
scadi	0.6600	0.6316	0.6667
schiller	0.4375	0.0000	0.0000
sclerosis	1.0000	1.0000	1.0000
secom	0.4834	0.0000	0.0000
secondary_mushroom	0.9995	0.9990	0.9990
seeds	0.9152	0.8571	0.8660
segment	0.9646	0.9544	0.9545
segmentation	0.8266	0.6515	0.6533
segmentO	0.9609	0.9187	0.9218
seismic	0.5789	0.1334	0.1480
sens-2-gram	0.5838	0.0286	0.0793
sens-3-gram	0.6601	0.0342	0.1320
sens-4-gram	0.5694	0.0500	0.0917
sensorless	0.9981	0.9979	0.9979
shoppers	0.8089	0.6164	0.6177
sick	0.8353	0.6625	0.6695
sirtuin6	1.0000	1.0000	1.0000
smarket	1.0000	1.0000	1.0000
smk_can_187	0.6292	0.2570	0.2584
smoking	0.7632	0.5068	0.5264
soil_pollution	0.1779	-0.0295	0.0000
solar-flare	0.7327	0.7251	0.7344
sonar	0.6094	0.2000	0.2182
soybean	0.9620	0.9678	0.9680
spam-detection	0.8671	0.7340	0.7341
spambase	0.9270	0.8534	0.8540
spect	0.7900	0.5652	0.5791
spectf	0.7481	0.4948	0.4961
spectrometer	0.4614	0.5202	0.5262
squash-unstored	0.8333	0.6154	0.6667
startup	1.0000	1.0000	1.0000
steel_industry	0.8538	0.8100	0.8102
stellar	0.9674	0.9492	0.9493
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Dataset	F1-macro	Kappa	MCC
stock	0.8214	0.6426	0.6428
stockb	1.0000	1.0000	1.0000
streaming	0.9272	0.8543	0.8543
stress	0.9679	0.9603	0.9603
student-depression	0.8121	0.6225	0.6241
student-habits	0.1559	-0.0413	0.0000
student-lifestyle	0.3304	0.3406	0.3417
student-weekend	0.2520	0.1321	0.1493
student-workday	0.1630	-0.0159	0.0000
studentap	0.5263	0.3036	0.3119
swarm_aligned	0.9605	0.9200	0.9209
swarm_flocking	0.9639	0.9276	0.9277
swarm_grouped	0.9701	0.9394	0.9403
tae	0.4667	0.2000	0.2013
telco-churn	0.8677	0.7338	0.7353
texture	0.9811	0.9779	0.9780
theorem	0.8910	0.7819	0.7820
thoracic	0.5444	0.0824	0.0866
Thyroid_Diff	0.8364	0.6713	0.6727
tis	0.7977	0.5643	0.5927
titanic	0.7714	0.5247	0.5418
tourist	0.5250	0.6364	0.6848
trains	0.9902	0.9870	1.0000
transfusion	0.5247	0.0489	0.0494
tuandromd	0.9677	0.9352	0.9354
turkish	0.8734	0.8333	0.8340
tvnews	0.8381	0.6710	0.6762
ur3_cobotops_grip	0.6437	0.2617	0.2784
ur3_cobotops_stop	0.6843	0.3341	0.3579
urban	0.8436	0.8072	0.8104
ustilago10%	0.4972	-0.0007	0.0000
vehicle	0.6795	0.6311	0.6366
vote	0.9089	0.8143	0.8178
vowel	0.7149	0.6556	0.6647
wap-wc	0.4971	0.6799	0.6909
warpar10p	0.5859	0.6510	0.6694
warppie10p	1.0000	1.0000	1.0000
waveform	0.8433	0.7631	0.7648
weather-related	0.9775	0.9717	0.9718
weight-lift	0.9945	0.9932	0.9932
white-clover	0.6604	0.1818	0.3162
wifi-loc	0.9854	0.9800	0.9803
wilt	0.9284	0.8551	0.8568
wine	1.0000	1.0000	1.0000
winequality-red	0.3101	0.3974	0.4010
winequality-white	0.3911	0.4466	0.4497
winnipeg10%	0.9911	0.9856	0.9857
wisc.bc	0.9817	0.9627	0.9633
yale	0.4384	0.4667	0.4917
yeast	0.3393	0.3998	0.4043
yeastCYT-POX	0.9047	0.7897	0.8078
yeastEXC	0.4861	-0.0278	0.0000
yeastME1	0.7845	0.5613	0.5674
yeastME2	0.6024	0.1766	0.1938
zip	0.9136	0.9108	0.9109

References

- [1] J. Ortigosa-Hernández, I. Inza, and J. A. Lozano, “Measuring the class-imbalance extent of multi-class problems,” *Pattern Recognition Letters*, vol. 98, pp. 32–38, 2017.