Supplementary tables for "Random Balance: Ensembles of Variable Priors Classifiers for Imbalanced Data"

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Table 1: AUC for ensembles in the Data-processing family.

Dataset	ESM100	ESM200	ESM500	ESM	ERUS	E-RB	EopB	EopS	EopU	ERUSR	EPart
hddt_boundary	0.5985	0.6138	0.6210	0.6258	0.7183	0.6748	0.6476	0.6168	0.6414	0.7200	0.7199
hddt_breast-y	0.6034	0.6049	0.5880	0.6038	0.6612	0.6414	0.6358	0.6160	0.6483	0.6661	0.6626
$hddt_{-}cam$	0.6622	0.6679	0.6648	0.6651	0.7697	0.7277	0.7347	0.6667	0.7675	0.7704	0.7687
hddt_compustat	0.9032	0.9076	0.9072	0.8966	0.8805	0.9072	0.9024	0.8999	0.8681	0.8820	0.8809
hddt_covtype	0.9921	0.9927	0.9925	0.9916	0.9900	0.9933	0.9922	0.9920	0.9872	0.9899	0.9899
hddt_credit-g	0.7061	0.6991	0.6917	0.7031	0.7427	0.7508	0.7279	0.7130	0.7186	0.7506	0.7433
hddt_estate	0.6322	0.6172	0.5929	0.5896	0.6475	0.6239	0.6404	0.6185	0.6459	0.6475	0.6475
hddt_german-numer	0.7360	0.7304	0.7223	0.7350	0.7649	0.7750	0.7452	0.7344	0.7423	0.7706	0.7649
hddt_heart-v	0.6758	0.6521	0.6459	0.6545	0.6669	0.6907	0.6701	0.6640	0.6464	0.6696	0.6653
hddt_hypo	0.9857	0.9870	0.9875	0.9877	0.9854	0.9911	0.9899	0.9871	0.9788	0.9871	0.9872
hddt_ism	0.9336	0.9368	0.9392	0.9332	0.9315	0.9394	0.9378	0.9363	0.9190	0.9326	0.9340
$hddt_letter$	0.9974	0.9974	0.9977	0.9952	0.9984	0.9990	0.9976	0.9970	0.9954	0.9984	0.9985
hddt_oil	0.9027	0.9015	0.8958	0.8860	0.9106	0.9128	0.8987	0.8827	0.9016	0.9143	0.9129
hddt_optdigits	0.9958	0.9962	0.9964	0.9966	0.9969	0.9986	0.9967	0.9964	0.9949	0.9969	0.9968
hddt_page	0.9903	0.9904	0.9898	0.9900	0.9902	0.9918	0.9905	0.9901	0.9894	0.9901	0.9903
hddt_pendigits	0.9985	0.9991	0.9989	0.9987	0.9985	0.9995	0.9991	0.9988	0.9945	0.9985	0.9984
hddt_phoneme	0.9278	0.9305	0.9298	0.9312	0.9253	0.9339	0.9295	0.9278	0.9108	0.9307	0.9247
hddt_PhosS	0.6976	0.7022	0.7012	0.6815	0.7590	0.7183	0.7473	0.7077	0.7536	0.7580	0.7572
hddt_satimage	0.9443	0.9457	0.9453	0.9430	0.9474	0.9513	0.9438	0.9430	0.9305	0.9477	0.9479
hddt_segment	0.9911	0.9921	0.9932	0.9932	0.9973	0.9991	0.9945	0.9930	0.9893	0.9980	0.9968
keel_abalone19	0.7481	0.7532	0.7448	0.7165	0.7729	0.7427	0.7314	0.7193	0.7350	0.7783	0.7748
keel_abalone9-18	0.7940	0.7923	0.7874	0.7729	0.7680	0.7919	0.7870	0.7853	0.7625	0.7663	0.7664
keel_cleveland-0_vs_4	0.9035	0.9073	0.9193	0.8764	0.9111	0.9377	0.9157	0.8911	0.9092	0.9103	0.9038
keel_ecoli-0-1-3-7_vs_2-6	0.7926	0.8441	0.8439	0.8398	0.9224	0.9278	0.9292	0.8277	0.8718	0.9155	0.9378
keel_ecoli-0-1-4-6_vs_5	0.9532	0.9501	0.9258	0.9098	0.9506	0.9654	0.9337	0.9219	0.9396	0.9526	0.9501
keel_ecoli-0-1-4-7_vs_2-3	0.9110	0.9053	0.9150	0.8991	0.9140	0.9308	0.9043	0.8978	0.8968	0.9141	0.9168
keel_ecoli-0-1-4-7_vs_5-6	0.9480	0.9329	0.9269	0.9119	0.9243	0.9521	0.9081	0.9261	0.9142	0.9217	0.9270
keel_ecoli-0-1_vs_2-3-5	0.9484	0.9476	0.9302	0.9302	0.9320	0.9480	0.9183	0.9134	0.9361	0.9314	0.9313
keel_ecoli-0-1_vs_5	0.9256	0.9241	0.8926	0.8660	0.9434	0.9579	0.9380	0.8850	0.9279	0.9453	0.9469
keel_ecoli-0-2-3-4_vs_5	0.9271	0.9262	0.9280	0.9255	0.9669	0.9690	0.9425	0.9221	0.9420	0.9625	0.9660
keel_ecoli-0-2-6-7_vs_3-5	0.9110	0.9129	0.9212	0.9165	0.9202	0.9261	0.9151	0.9141	0.9156	0.9199	0.9218
keel_ecoli-0-3-4-6_vs_5	0.9234	0.9189	0.9049	0.9023	0.9474	0.9568	0.9288	0.8984	0.9374	0.9471	0.9442
keel_ecoli-0-3-4-7_vs_5-6	0.9291	0.9233	0.9196	0.9092	0.9374	0.9474	0.9106	0.9115	0.9257	0.9357	0.9399
keel_ecoli-0-3-4_vs_5	0.8937	0.8966	0.8902	0.8757	0.9403	0.9619	0.9342	0.8793	0.9449	0.9477	0.9410
keel_ecoli-0-4-6_vs_5	0.9528	0.9361	0.9157	0.9115	0.9671	0.9677	0.9563	0.9222	0.9649	0.9625	0.9681
keel_ecoli-0-6-7_vs_3-5	0.8812	0.8921	0.8986	0.9083	0.9254	0.9213	0.9110	0.8911	0.8815	0.9211	0.9208
keel_ecoli-0-6-7_vs_5	0.9090	0.9297	0.9459	0.9541	0.9565	0.9541	0.9255	0.9290	0.9231	0.9587	0.9572
keel_ecoli-0_vs_1	0.9843	0.9844	0.9858	0.9845	0.9859	0.9954	0.9860	0.9831	0.9843	0.9903	0.9862
keel_ecoli1	0.9477	0.9453	0.9433	0.9450	0.9557	0.9543	0.9541	0.9445	0.9472	0.9556	0.9558
keel_ecoli2	0.9208	0.9246	0.9353	0.9351	0.9392	0.9429	0.9351	0.9265	0.9285	0.9387	0.9408
keel_ecoli3	0.9097	0.9156	0.9181	0.9155	0.9359	0.9391	0.9221	0.9045	0.9106	0.9368	0.9338
keel_ecoli4	0.9229	0.9255	0.9281	0.8896	0.9653	0.9630	0.9154	0.8871	0.9288	0.9607	0.9628
keel_glass-0-1-2-3_vs_4-5	0.9454	0.9461	0.9461	0.9466	0.9509	0.9724	0.9504	0.9463	0.9502	0.9554	0.9513
keel_glass-0-1-4-6_vs_2	0.7098	0.6998	0.7089	0.7041	0.6993	0.7662	0.7359	0.6820	0.7219	0.7271	0.7132
keel_glass-0-1-5_vs_2	0.7057	0.7202	0.6865	0.6959	0.7135	0.7551	0.7333	0.6920	0.6893	0.6801	0.7030
keel_glass-0-1-6_vs_2	0.6754	0.6804	0.6618	0.6363	0.6641	0.7335	0.7166	0.6614	0.6717	0.6670	0.6739
keel_glass-0-1-6_vs_5	0.9889	0.9903	0.9949	0.9897	0.9808	0.1938	0.9935	0.9883	0.9893	0.9776	0.9861
keel_glass-0-4_vs_5	0.9940	0.9940	0.9940	0.9940	0.9940	0.9957	0.9940	0.9940	0.9940	0.9952	0.9940
keel_glass-0-4_vs_5	0.9476	0.9340 0.9472	0.9468	0.9464	0.9844	0.9843	0.9845	0.9468	0.9631	0.9861	0.9803
keel_glass0	0.8400	0.8413	0.9408 0.8512	0.9404 0.8389	0.8601	0.9843 0.8593	0.9845 0.8384	0.9408 0.8255	0.9031 0.8327	0.8623	0.8516
keel_glass1	0.8400	0.8046	0.8312 0.7963	0.8389 0.7936	0.8056	0.8393 0.8146	0.8384 0.7974	0.8233 0.7843	0.8327 0.7723	0.8023 0.8207	0.8310
keel_glass1 keel_glass2	0.7548	0.7800	0.7903	0.7838	0.8030 0.7434	0.8140 0.8214	0.7974 0.7772	0.7545 0.7506	0.7123 0.7458	0.8207 0.7560	0.7527
keel_glass4	0.7348	0.7800	0.7903	0.7838	0.7434	0.8214 0.9117	0.1112	0.7300	0.7438	0.7300	0.7327
keel_glass5	0.9908	0.8902	0.8930	0.8233	0.8983 0.9714	0.9117	0.9092 0.9905	0.8347	0.8903	0.9072 0.9717	0.9000
Continued on next page	0.5500	0.3030	0.5500	0.3000	0.3114	0.3344	0.5500	0.3013	0.3310	0.3111	0.3101
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 $\ensuremath{\text{Table 1:}}$ AUC for ensembles in the the Data-processing family.

Dataset	ESM100	ESM200	ESM500	ESM	ERUS	E-RB	EopB	EopS	EopU	ERUSR	EPart
keel_glass6	0.9428	0.9485	0.9481	0.9441	0.9525	0.9530	0.9494	0.9418	0.9353	0.9543	0.9444
keel_haberman	0.6971	0.6965	0.7025	0.6937	0.7098	0.7090	0.7074	0.6894	0.6986	0.7122	0.7102
keel_iris0	0.9820	0.9820	0.9820	0.9820	0.9820	1.0000	0.9820	0.9820	0.9820	0.9820	0.9820
keel_led7digit-0-2-4-5-6-	0.9323	0.9399	0.9420	0.9438	0.9539	0.9577	0.9482	0.9450	0.9459	0.9548	0.9533
keel_new-thyroid1	0.9699	0.9670	0.9651	0.9647	0.9934	0.9936	0.9669	0.9583	0.9644	0.9925	0.9916
keel_new-thyroid2	0.9765	0.9703	0.9769	0.9690	0.9929	0.9950	0.9817	0.9744	0.9765	0.9936	0.9927
keel_page-blocks-1-3_vs_4	0.9937	0.9936	0.9957	0.9766	0.9988	0.9997	0.9987	0.9762	0.9967	0.9986	0.9994
keel_page-blocks0	0.9898	0.9897	0.9892	0.9891	0.9892	0.9913	0.9896	0.9894	0.9880	0.9891	0.9890
keel_pima	0.8035	0.8039	0.8023	0.8035	0.8126	0.8185	0.8047	0.8002	0.7989	0.8181	0.8122
keel_segment0	0.9924	0.9936	0.9928	0.9919	0.9955	0.9983	0.9938	0.9931	0.9907	0.9965	0.9958
keel_shuttle-c0-vs-c4	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	0.9999	0.9999	0.9999	1.0000	1.0000
keel_shuttle-c2-vs-c4	1.0000	1.0000	1.0000	1.0000	0.9997	1.0000	0.9656	0.9656	0.9656	1.0000	1.0000
keel_vehicle0	0.9773	0.9776	0.9787	0.9786	0.9887	0.9885	0.9837	0.9769	0.9798	0.9886	0.9882
keel_vehicle1	0.8296	0.8325	0.8270	0.8318	0.8459	0.8452	0.8381	0.8306	0.8157	0.8480	0.8457
keel_vehicle2	0.9833	0.9833	0.9825	0.9834	0.9929	0.9936	0.9896	0.9796	0.9856	0.9929	0.9932
keel_vehicle3	0.8342	0.8312	0.8215	0.8310	0.8414	0.8478	0.8373	0.8246	0.8126	0.8431	0.8422
keel_vowel0	0.9935	0.9943	0.9968	0.9957	0.9898	0.9965	0.9965	0.9948	0.9793	0.9905	0.9892
keel_wisconsin	0.9855	0.9861	0.9854	0.9851	0.9904	0.9921	0.9888	0.9857	0.9891	0.9907	0.9908
$keel_yeast-0-2-5-6_vs_3-7$	0.8113	0.8252	0.8320	0.8345	0.8559	0.8449	0.8439	0.8316	0.8480	0.8551	0.8568
$keel_yeast-0-2-5-7-9_vs_3$	0.9205	0.9343	0.9391	0.9366	0.9433	0.9483	0.9421	0.9360	0.9439	0.9464	0.9442
$keel_yeast-0-3-5-9_vs_7-8$	0.7517	0.7511	0.7277	0.7336	0.7695	0.7573	0.7454	0.7332	0.7566	0.7707	0.7740
$keel_yeast-0-5-6-7-9_vs_4$	0.8799	0.8782	0.8792	0.8795	0.8914	0.8931	0.8850	0.8809	0.8790	0.8896	0.8878
$keel_yeast-1-2-8-9_vs_7$	0.7953	0.7885	0.7587	0.7245	0.7640	0.7373	0.7467	0.7406	0.7610	0.7677	0.7720
keel_yeast-1-4-5-8_vs_7	0.6618	0.6447	0.6424	0.6268	0.6857	0.6477	0.6393	0.6250	0.6757	0.6775	0.6837
keel_yeast-1_vs_7	0.8336	0.8238	0.8112	0.7734	0.8100	0.8096	0.7941	0.7979	0.8243	0.8123	0.8084
keel_yeast-2_vs_4	0.9695	0.9736	0.9736	0.9785	0.9783	0.9799	0.9779	0.9763	0.9755	0.9784	0.9789
keel_yeast-2_vs_8	0.7865	0.7865	0.8176	0.7960	0.7905	0.8167	0.7848	0.7860	0.7704	0.7895	0.7860
keel_yeast1	0.7770	0.7771	0.7736	0.7769	0.7925	0.7949	0.7804	0.7689	0.7719	0.7966	0.7927
keel_yeast3	0.9703	0.9706	0.9721	0.9707	0.9720	0.9741	0.9721	0.9682	0.9658	0.9721	0.9725
keel_yeast4	0.9303	0.9298	0.9305	0.9256	0.9345	0.9335	0.9330	0.9282	0.9313	0.9342	0.9356
keel_yeast5	0.9618	0.9734	0.9745	0.9627	0.9907	0.9897	0.9816	0.9589	0.9876	0.9909	0.9913
keel_yeast6	0.9006	0.8981	0.8979	0.8884	0.9281	0.9137	0.9031	0.8952	0.8981	0.9301	0.9325

 $T_{\rm able}$ 2: F-Measure for ensembles in the the Data-processing family.

Dataset	ESM100	ESM200	ESM500	ESM	ERUS	E-RB	EopB	EopS	EopU	ERUSR	EPart
hddt_boundary	0.0805	0.0871	0.0910	0.1204	0.1111	0.1421	0.1001	0.0850	0.0586	0.1106	0.1104
hddt_breast-y	0.4090	0.4263	0.4338	0.4014	0.4789	0.4417	0.4307	0.4183	0.4321	0.4780	0.4754
$hddt_cam$	0.1525	0.1622	0.1551	0.1598	0.2040	0.1922	0.2096	0.1603	0.2352	0.2037	0.2044
hddt_compustat	0.3000	0.3725	0.4089	0.3648	0.2109	0.3404	0.3761	0.3826	0.2089	0.2090	0.2097
hddt_covtype	0.8660	0.8718	0.8670	0.8618	0.6951	0.8517	0.8614	0.8616	0.8450	0.6937	0.6945
hddt_credit-g	0.4901	0.4892	0.4926	0.4856	0.5575	0.5536	0.5224	0.4946	0.5135	0.5616	0.5594
$hddt_{estate}$	0.0638	0.1447	0.2101	0.2212	0.2710	0.2425	0.1456	0.0787	0.1591	0.2713	0.2746
hddt_german-numer	0.5139	0.5092	0.5120	0.5214	0.5872	0.5819	0.5342	0.5148	0.5403	0.5804	0.5825
hddt_heart-v	0.4106	0.3967	0.3892	0.3978	0.4523	0.4250	0.4255	0.3669	0.3677	0.4523	0.4563
hddt_hypo	0.8946	0.8844	0.8797	0.8393	0.7219	0.8685	0.8562	0.8723	0.8733	0.7181	0.7187
$hddt_{ism}$	0.6637	0.6586	0.6502	0.5498	0.3209	0.5359	0.5285	0.6278	0.5922	0.3177	0.3225
$hddt_{-}letter$	0.9454	0.9496	0.9455	0.9292	0.7793	0.9569	0.9386	0.9420	0.9317	0.7768	0.7773
hddt_oil	0.4802	0.5064	0.4894	0.4246	0.2583	0.4510	0.4121	0.4662	0.4139	0.2611	0.2605
hddt_optdigits	0.9741	0.9749	0.9716	0.9717	0.9450	0.9793	0.9728	0.9725	0.9717	0.9406	0.9467
hddt_page	0.8730	0.8703	0.8487	0.8410	0.7820	0.8498	0.8542	0.8550	0.8689	0.7765	0.7819
hddt_pendigits	0.9608	0.9666	0.9645	0.9638	0.9330	0.9725	0.9647	0.9619	0.9459	0.9282	0.9313
$hddt_phoneme$	0.7785	0.7822	0.7687	0.7837	0.7561	0.7837	0.7801	0.7775	0.7454	0.7587	0.7550
$hddt_PhosS$	0.1391	0.1615	0.1692	0.1307	0.1896	0.1753	0.2192	0.1570	0.2057	0.1870	0.1884
hddt_satimage	0.6443	0.6503	0.6410	0.6331	0.5380	0.6354	0.6210	0.6343	0.5813	0.5311	0.5361
hddt_segment	0.9754	0.9722	0.9714	0.9714	0.9390	0.9727	0.9610	0.9756	0.9713	0.9347	0.9385
keel_abalone19	0.0080	0.0205	0.0374	0.0450	0.0283	0.0535	0.0408	0.0451	0.0084	0.0297	0.0296
keel_abalone9-18	0.3175	0.3636	0.3382	0.2959	0.2220	0.3077	0.3027	0.3324	0.2584	0.2233	0.2236
$keel_cleveland-0_vs_4$	0.4737	0.4684	0.5243	0.5445	0.3744	0.5551	0.5239	0.4451	0.4677	0.3786	0.3840
keel_ecoli-0-1-3-7_vs_2-6	0.5194	0.4853	0.4764	0.4714	0.1639	0.6382	0.1965	0.4443	0.4767	0.1633	0.1675
$keel_ecoli-0-1-4-6_vs_5$	0.7296	0.7431	0.7169	0.6806	0.4749	0.6883	0.6602	0.7167	0.7061	0.4937	0.4948
$keel_ecoli-0-1-4-7_vs_2-3$	0.6560	0.6983	0.6259	0.6156	0.4845	0.6390	0.6738	0.6842	0.6443	0.4742	0.4807
$keel_ecoli-0-1-4-7_vs_5-6$	0.6627	0.6931	0.6871	0.6999	0.4873	0.7227	0.6148	0.6786	0.6113	0.4780	0.4907
$keel_ecoli-0-1_vs_2-3-5$	0.7151	0.6918	0.7003	0.6923	0.5559	0.6878	0.6714	0.6836	0.6654	0.5597	0.5724
$keel_ecoli-0-1_vs_5$	0.7233	0.7032	0.6860	0.6673	0.5243	0.6755	0.5845	0.6973	0.6342	0.5135	0.5117
$keel_ecoli-0-2-3-4_vs_5$	0.7166	0.6904	0.7086	0.7038	0.5914	0.6741	0.7077	0.7096	0.7109	0.5785	0.5809
$keel_ecoli-0-2-6-7_vs_3-5$	0.7757	0.7508	0.7330	0.7042	0.5924	0.7111	0.6660	0.7191	0.7637	0.5890	0.5856
$keel_ecoli-0-3-4-6_vs_5$	0.6845	0.6838	0.7167	0.7384	0.5375	0.7124	0.6801	0.6761	0.6295	0.5301	0.5444
$keel_ecoli-0-3-4-7_vs_5-6$	0.7472	0.7368	0.6996	0.7031	0.5386	0.7236	0.6573	0.6992	0.7197	0.5408	0.5315
$keel_ecoli-0-3-4_vs_5$	0.7337	0.7192	0.6912	0.6789	0.5793	0.7103	0.6992	0.7079	0.7033	0.5622	0.5763
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 $_{\mbox{\scriptsize Table 2:}}$ F-Measure for ensembles in the the Data-processing family.

Dataset	ESM100	ESM200	ESM500	ESM	ERUS	E-RB	EopB	EopS	EopU	ERUSR	EPart
keel_ecoli-0-4-6_vs_5	0.7274	0.7264	0.7175	0.6703	0.5544	0.7450	0.7093	0.7174	0.6907	0.5441	0.5670
$keel_ecoli-0-6-7_vs_3-5$	0.7058	0.7189	0.7019	0.6845	0.6094	0.6796	0.6707	0.6909	0.7125	0.6011	0.6108
$keel_ecoli-0-6-7_vs_5$	0.7949	0.7887	0.7532	0.7521	0.6359	0.7534	0.7989	0.7882	0.8023	0.6258	0.6248
keel_ecoli-0_vs_1	0.9778	0.9728	0.9618	0.9778	0.9642	0.9765	0.9778	0.9766	0.9601	0.9522	0.9644
keel_ecoli1	0.7767	0.7699	0.7679	0.7665	0.7766	0.7876	0.7779	0.7692	0.7738	0.7767	0.7780
keel_ecoli2	0.7982	0.7987	0.7857	0.7864	0.6790	0.7915	0.7826	0.7924	0.7524	0.6743	0.6794
keel_ecoli3	0.5676	0.5762	0.5956	0.5892	0.5415	0.6214	0.5843	0.5753	0.5623	0.5282	0.5294
keel_ecoli4	0.6888	0.6868	0.6890	0.6535	0.5165	0.6585	0.6703	0.6752	0.6831	0.5078	0.4979
$keel_glass-0-1-2-3_vs_4-5$	0.8375	0.8260	0.8355	0.8305	0.8119	0.8412	0.8407	0.8399	0.8343	0.8110	0.8142
$keel_glass-0-1-4-6_vs_2$	0.2302	0.2553	0.3265	0.3450	0.2121	0.2970	0.2778	0.2236	0.1828	0.2199	0.2268
keel_glass-0-1-5_vs_2	0.2972	0.3217	0.3312	0.3091	0.2353	0.3464	0.2505	0.3075	0.1940	0.2271	0.2412
keel_glass-0-1-6_vs_2	0.2419	0.2797	0.2606	0.2236	0.2065	0.2650	0.2215	0.2522	0.1384	0.2071	0.2159
keel_glass-0-1-6_vs_5	0.7390	0.7985	0.8283	0.7928	0.4820	0.7913	0.8400	0.8115	0.7405	0.4820	0.4820
keel_glass-0-4_vs_5	0.9505	0.9505	0.9505	0.9505	0.9505	0.9505	0.9505	0.9505	0.9505	0.9505	0.9505
keel_glass-0-6_vs_5	0.8863	0.8863	0.8863	0.8863	0.5257	0.8946	0.9013	0.8863	0.8485	0.5257	0.5178
keel_glass0	0.7013	0.6920	0.7017	0.7017	0.7105	0.7216	0.6955	0.6699	0.6876	0.6980	0.7090
keel_glass1	0.6551	0.6543	0.6354	0.6303	0.6539	0.6354	0.6565	0.6248	0.6079	0.6641	0.6520
keel_glass2	0.1898	0.2824	0.3305	0.3171	0.2181	0.2984	0.2620	0.3122	0.2412	0.2266	0.2390
keel_glass4	0.4384	0.4587	0.5332	0.5083	0.3509	0.4748	0.4300	0.4643	0.4110	0.3746	0.3654
keel_glass5	0.4334	0.7971	0.8325	0.7772	0.4689	0.7606	0.4300 0.7949	0.4043 0.7772	0.4110 0.8025	0.4689	0.3634 0.4689
keel_glass6	0.8153	0.7371	0.8323	0.8162	0.4009 0.7312	0.7000	0.7343	0.8185	0.3023	0.4039 0.7274	0.7350
keel_haberman	0.4875	0.4756	0.4877	0.3102 0.4733	0.4983	0.5239	0.3203 0.4937	0.3133 0.4897	0.4208	0.4930	0.4971
keel_iris0	0.4813	0.9813	0.4811	0.4733	0.4933	0.9813	0.4937	0.4837	0.4203	0.4930	0.4311
keel_led7digit-0-2-4-5-6-	0.9813 0.7422	0.9813 0.7374	0.9813 0.7656	0.9613 0.7672	0.9813 0.5524	0.9813 0.7541	0.9813 0.6704	0.9813 0.7527	0.9813 0.7123	0.9813 0.5327	0.5300
keel_new-thyroid1	0.7422	0.7374	0.7030	0.7072	0.3324 0.8133	0.7341 0.9077	0.8606	0.7327	0.7125 0.8795	0.8190	0.3300 0.8187
keel_new-thyroid1 keel_new-thyroid2	0.8843 0.9117	0.8870	0.9084 0.9125	0.8940 0.9154	0.8133 0.8487	0.8960	0.8000	0.8843 0.9006	0.8865	0.8190 0.8278	0.8370
keel_page-blocks-1-3_vs_4	0.9320	0.9325	0.9125 0.9325	0.9134 0.9325	0.4926	0.8900	0.9111	0.9325	0.9059	0.4867	0.4900
	0.9520 0.8665	0.9525 0.8655	0.9323	0.9323 0.8430	0.4920 0.7807	0.9284 0.8455	0.9445 0.8425	0.9525 0.8519	0.9059 0.8599	0.4807 0.7793	0.4900 0.7806
keel_page-blocks0 keel_pima	0.8603 0.6601	0.6564	0.6546	0.6608	0.7807	0.6654	0.6425 0.6561	0.8319 0.6427	0.6399	0.7793	0.7800
*	0.0001 0.9716	0.0304 0.9739	0.0540	0.0008 0.9719	0.0032 0.9324	0.0634 0.9683	0.0301 0.9702	0.0427 0.9730	0.0390 0.9611	0.0031 0.9361	0.0048 0.9342
keel_segment0											
keel_shuttle-c0-vs-c4	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	0.9984	0.9984	0.9984	1.0000	1.0000
keel_shuttle-c2-vs-c4	1.0000	1.0000	1.0000	1.0000	0.9000	1.0000	0.9238	0.9238	0.9238	0.8500	0.9000
keel_vehicle0	0.8637	0.8616 0.5955	0.8673	0.8604	0.8607	0.8803	0.8646	0.8586	0.8649	0.8562	0.8633
keel_vehicle1	0.5822		0.6161	0.5912	0.6352	0.6243	0.6006	0.5762	0.5540	0.6377	0.6340
keel_vehicle2	0.9166	0.9166	0.9124	0.9156	0.9204	0.9329	0.9235	0.9099	0.9212	0.9127	0.9169
keel_vehicle3	0.5665	0.5782	0.5886	0.5766	0.6164	0.6162	0.5920	0.5627	0.5559	0.6133	0.6160
keel_vowel0	0.9009	0.8909	0.9027	0.8829	0.7779	0.8733	0.8789	0.8781	0.8615	0.7743	0.7712
keel_wisconsin	0.9380	0.9365	0.9366	0.9380	0.9467	0.9521	0.9425	0.9352	0.9363	0.9494	0.9462
keel_yeast-0-2-5-6_vs_3-7	0.5403	0.5653	0.5718	0.5470	0.5567	0.5531	0.5398	0.5494	0.5626	0.5470	0.5574
keel_yeast-0-2-5-7-9_vs_3	0.7622	0.7780	0.7636	0.7452	0.7117	0.7434	0.7171	0.7506	0.7286	0.7068	0.7185
keel_yeast-0-3-5-9_vs_7-8	0.3768	0.4072	0.3722	0.3574	0.3334	0.3717	0.3514	0.3687	0.3602	0.3275	0.3386
keel_yeast-0-5-6-7-9_vs_4	0.4546	0.4726	0.4853	0.4689	0.4489	0.4982	0.4837	0.4721	0.5145	0.4423	0.4447
keel_yeast-1-2-8-9_vs_7	0.2349	0.2574	0.2300	0.2036	0.1243	0.1868	0.2377	0.2204	0.2242	0.1301	0.1346
keel_yeast-1-4-5-8_vs_7	0.0578	0.0830	0.1446	0.1532	0.1262	0.1644	0.1294	0.1464	0.0809	0.1213	0.1255
keel_yeast-1_vs_7	0.3838	0.3545	0.3387	0.2769	0.2584	0.3310	0.3288	0.3238	0.3825	0.2462	0.2572
keel_yeast-2_vs_4	0.7337	0.7295	0.7344	0.7271	0.6837	0.7149	0.7386	0.7171	0.7212	0.6806	0.6791
keel_yeast-2_vs_8	0.4860	0.5736	0.5510	0.4263	0.2422	0.4098	0.4292	0.4921	0.5109	0.2557	0.2509
keel_yeast1	0.5794	0.5793	0.5697	0.5783	0.5927	0.5920	0.5714	0.5418	0.5531	0.5935	0.5912
keel_yeast3	0.7732	0.7821	0.7850	0.7775	0.7505	0.7788	0.7674	0.7769	0.7664	0.7418	0.7442
keel_yeast4	0.4164	0.4121	0.4169	0.3565	0.2219	0.3336	0.3844	0.3792	0.3493	0.2198	0.2204
keel_yeast5	0.7323	0.7346	0.7456	0.7168	0.4392	0.7311	0.6569	0.7289	0.6482	0.4445	0.4460
keel_yeast6	0.5449	0.5305	0.5304	0.3889	0.2248	0.3685	0.3610	0.4066	0.4092	0.2280	0.2240

 $_{\mbox{\scriptsize Table 3:}}$ Geometric Mean for ensembles in the the Data-processing family.

Dataset	ESM100	ESM200	ESM500	ESM	ERUS	E-RB	EopB	EopS	EopU	ERUSR	EPart
hddt_boundary	0.3064	0.3060	0.3107	0.3482	0.6516	0.3552	0.3109	0.2999	0.2619	0.6493	0.6480
hddt_breast-y	0.5525	0.5664	0.5710	0.5462	0.6076	0.5805	0.5665	0.5592	0.5697	0.6005	0.6035
$hddt_cam$	0.4044	0.4192	0.4073	0.4137	0.6995	0.3715	0.5171	0.4053	0.6563	0.7024	0.6987
hddt_compustat	0.4509	0.5399	0.6410	0.7509	0.8048	0.7924	0.7358	0.7259	0.4144	0.8028	0.8040
hddt_covtype	0.9242	0.9323	0.9408	0.9460	0.9508	0.9587	0.9468	0.9460	0.9142	0.9508	0.9506
hddt_credit-g	0.6209	0.6204	0.6231	0.6170	0.6719	0.6723	0.6478	0.6240	0.6396	0.6690	0.6737
$hddt_{estate}$	0.1905	0.3182	0.4667	0.5030	0.6046	0.5320	0.3089	0.2094	0.3612	0.6047	0.6088
hddt_german-numer	0.6374	0.6341	0.6386	0.6434	0.7009	0.6965	0.6533	0.6374	0.6596	0.6894	0.6959
hddt_heart-v	0.5542	0.5540	0.5523	0.5553	0.6146	0.5822	0.5743	0.5228	0.5323	0.6094	0.6181
hddt_hypo	0.9349	0.9356	0.9406	0.9329	0.9615	0.9610	0.9642	0.9330	0.9467	0.9612	0.9612
$hddt_{ism}$	0.7749	0.7949	0.8275	0.8709	0.8870	0.8860	0.8758	0.8390	0.7893	0.8886	0.8892
$hddt_{letter}$	0.9685	0.9688	0.9681	0.9664	0.9802	0.9747	0.9708	0.9690	0.9715	0.9801	0.9795
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 $\ensuremath{\mathsf{Table}}$ 3: Geometric Mean for ensembles in the the Data-processing family.

Dataset	ESM100	ESM200	ESM500	ESM	ERUS	E-RB	EopB	EopS	EopU	ERUSR	EPart
hddt_oil	0.6591 0.9844	0.6796 0.9858	0.6794	0.6819 0.9854	0.8127 0.9869	0.7642	0.7528 0.9871	0.6778	0.7465 0.9860	$0.8206 \\ 0.9862$	0.8149
hddt_optdigits hddt_page	0.9844 0.9340	0.9858 0.9401	0.9834 0.9434	0.9854 0.9468	0.9869 0.9550	$0.9901 \\ 0.9581$	0.9871 0.9491	$0.9858 \\ 0.9431$	0.9860 0.9366	0.9862 0.9547	$0.9871 \\ 0.9548$
hddt_pendigits	0.9732	0.9779	0.9434	0.9799	0.9809	0.9859	0.9491 0.9796	0.9431 0.9776	0.9706	0.9809	0.9806
hddt_phoneme	0.8552	0.8627	0.8577	0.8613	0.8484	0.8636	0.8560	0.8528	0.8227	0.8521	0.8480
hddt_PhosS	0.2953	0.3294	0.3543	0.3153	0.6987	0.3432	0.6119	0.3362	0.6453	0.6955	0.6961
hddt_satimage	0.7701	0.7886	0.8074	0.8174	0.8718	0.8513	0.8193	0.8050	0.7753	0.8703	0.8714
hddt_segment	0.9845	0.9844	0.9853	0.9853	0.9827	0.9873	0.9839	0.9868	0.9835	0.9821	0.9826
keel_abalone19	0.0250	0.0500	0.1349	0.3596	0.6774	0.4729	0.5147	0.3280	0.2034	0.6953	0.6915
keel_abalone9-18	0.5072	0.5655	0.5915	0.6103	0.6983	0.6512	0.6073	0.5744	0.5731	0.7039	0.6984
$keel_cleveland-0_vs_4$	0.5855	0.6030	0.6441	0.7143	0.7803	0.7246	0.7349	0.5833	0.6494	0.7772	0.7760
keel_ecoli-0-1-3-7_vs_2-6	0.6679	0.6668	0.6664	0.6534	0.8049	0.8256	0.7989	0.6302	0.7462	0.8047	0.8103
keel_ecoli-0-1-4-6_vs_5	0.8418	0.8601	0.8427	0.8063	0.8412	0.8336	0.8429	0.8246	0.8550	0.8538	0.8421
keel_ecoli-0-1-4-7_vs_2-3	0.7693	0.8205	0.8106	0.8156	0.8279	0.8355	0.8482	0.8183	0.8148	0.8216	0.8253
keel_ecoli-0-1-4-7_vs_5-6 keel_ecoli-0-1_vs_2-3-5	0.7788 0.8438	0.8151 0.8343	$0.8165 \\ 0.8451$	0.8533 0.8515	0.8412 0.8624	$0.8634 \\ 0.8726$	$0.8210 \\ 0.8573$	$0.8118 \\ 0.8428$	0.7847 0.8514	$0.8369 \\ 0.8618$	$0.8446 \\ 0.8696$
keel_ecoli-0-1_vs_5	0.8460	0.8343 0.8229	0.8431 0.8105	0.8037	0.8024 0.8469	0.8720	0.8138	0.8428 0.8182	0.8314 0.8340	0.8409	0.8322
keel_ecoli-0-2-3-4_vs_5	0.8516	0.8418	0.8736	0.8644	0.8705	0.8717	0.8765	0.8507	0.8683	0.8671	0.8671
keel_ecoli-0-2-6-7_vs_3-5	0.8526	0.8489	0.8558	0.8427	0.8521	0.8573	0.8352	0.8444	0.8655	0.8529	0.8507
keel_ecoli-0-3-4-6_vs_5	0.8373	0.8225	0.8500	0.8596	0.8387	0.8683	0.8475	0.8320	0.8273	0.8358	0.8409
keel_ecoli-0-3-4-7_vs_5-6	0.8448	0.8508	0.8456	0.8506	0.8287	0.8718	0.8141	0.8253	0.8485	0.8361	0.8279
keel_ecoli-0-3-4_vs_5	0.8479	0.8348	0.8139	0.7942	0.8367	0.8441	0.8280	0.8354	0.8327	0.8314	0.8345
$keel_ecoli-0-4-6_vs_5$	0.8553	0.8442	0.8390	0.8150	0.8553	0.8824	0.8753	0.8428	0.8717	0.8456	0.8634
$keel_ecoli-0-6-7_vs_3-5$	0.8152	0.8269	0.8339	0.8358	0.8561	0.8402	0.8428	0.8316	0.8410	0.8475	0.8541
keel_ecoli-0-6-7_vs_5	0.8890	0.8881	0.8769	0.8969	0.8933	0.9023	0.9035	0.9021	0.8896	0.8871	0.8871
keel_ecoli-0_vs_1	0.9820	0.9792	0.9729	0.9820	0.9733	0.9814	0.9820	0.9813	0.9702	0.9663	0.9732
keel_ecoli1	0.8643	0.8683	0.8793	0.8693	0.8962	0.8936	0.8871	0.8571	0.8811	0.8977	0.8971
keel_ecoli2	0.8657	0.8743	0.8824	0.8812	0.8734	0.8825	0.8725	0.8710	0.8721	0.8729	0.8738
keel_ecoli3 keel_ecoli4	0.7461 0.8166	0.7765 0.8261	0.8055 0.8316	$0.8086 \\ 0.8020$	0.8787 0.8811	0.8574	0.8102 0.8022	0.7732 0.8027	0.7764	$0.8654 \\ 0.8678$	0.8688
keel_glass-0-1-2-3_vs_4-5	0.8100	0.8808	0.8980	0.8020 0.8849	0.8011 0.9046	$0.8196 \\ 0.9135$	0.8022 0.9078	0.8027	$0.8260 \\ 0.8973$	0.8078	$0.8733 \\ 0.9060$
keel_glass-0-1-4-6_vs_2	0.3307	0.3876	0.5350 0.5152	0.5652	0.6170	0.5135 0.5575	0.5073 0.5712	0.3675	0.4036	0.6299	0.6394
keel_glass-0-1-5_vs_2	0.4614	0.5199	0.5715	0.5817	0.6014	0.6330	0.5539	0.5449	0.4646	0.5857	0.6091
keel_glass-0-1-6_vs_2	0.3964	0.4673	0.4608	0.4431	0.5923	0.5334	0.5225	0.4522	0.3223	0.5921	0.6066
keel_glass-0-1-6_vs_5	0.8617	0.9105	0.9521	0.9227	0.9410	0.9856	0.9896	0.9402	0.8989	0.9410	0.9410
keel_glass-0-4_vs_5	0.9939	0.9939	0.9939	0.9939	0.9939	0.9939	0.9939	0.9939	0.9939	0.9939	0.9939
$keel_glass-0-6_vs_5$	0.9485	0.9485	0.9485	0.9485	0.9122	0.9493	0.9501	0.9485	0.9407	0.9122	0.9100
keel_glass0	0.7791	0.7723	0.7802	0.7794	0.7872	0.7976	0.7761	0.7521	0.7689	0.7763	0.7870
keel_glass1	0.7255	0.7230	0.7017	0.7057	0.7253	0.7105	0.7279	0.7017	0.6870	0.7312	0.7238
keel_glass2	0.3575	0.4899	0.5784	0.6042	0.6384	0.6008	0.5780	0.5088	0.4960	0.6496	0.6700
keel_glass4	0.6524	0.6639	0.7401	0.7379	0.8208	0.7349	0.7109	0.6805	0.7314	0.8403	0.8276
keel_glass5 keel_glass6	$0.9690 \\ 0.8973$	0.9655 0.8984	$0.9690 \\ 0.9106$	$0.9454 \\ 0.9070$	0.9473 0.8960	$0.9759 \\ 0.9167$	$0.9670 \\ 0.9144$	$0.9454 \\ 0.8951$	$0.9675 \\ 0.8893$	$0.9473 \\ 0.8949$	0.9473 0.8971
keel_haberman	0.6370	0.6291	0.6338	0.6265	0.6494	0.6518	0.6319	0.6931 0.6418	0.5638	0.6949 0.6434	0.6474
keel_iris0	0.9816	0.9816	0.9816	0.9816	0.9816	0.9816	0.9816	0.9816	0.9816	0.9816	0.9816
keel_led7digit-0-2-4-5-6-	0.8685	0.8678	0.8997	0.9025	0.8644	0.8925	0.8744	0.8857	0.8627	0.8655	0.8640
keel_new-thyroid1	0.9360	0.9366	0.9439	0.9332	0.9299	0.9413	0.9254	0.9353	0.9297	0.9329	0.9335
keel_new-thyroid2	0.9427	0.9391	0.9475	0.9481	0.9464	0.9482	0.9496	0.9451	0.9373	0.9430	0.9451
keel_page-blocks-1-3_vs_4	0.9600	0.9634	0.9634	0.9634	0.9267	0.9700	0.9892	0.9634	0.9611	0.9268	0.9280
keel_page-blocks0	0.9292	0.9354	0.9364	0.9384	0.9508	0.9519	0.9410	0.9363	0.9266	0.9520	0.9501
keel_pima	0.7339	0.7283	0.7198	0.7349	0.7330	0.7387	0.7316	0.7206	0.7161	0.7297	0.7345
keel_segment0	0.9822	0.9857	0.9849	0.9856	0.9782	0.9847	0.9856	0.9845	0.9801	0.9794	0.9786
keel_shuttle-c0-vs-c4	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	0.9999	0.9999	0.9999	1.0000	1.0000
keel_shuttle-c2-vs-c4	1.0000	1.0000	1.0000	1.0000	0.9000	1.0000	0.9613	0.9613	0.9613	0.8577	0.9000
keel_vehicle0 keel_vehicle1	$0.9164 \\ 0.7164$	$0.9161 \\ 0.7332$	$0.9274 \\ 0.7562$	$0.9150 \\ 0.7301$	0.9399 0.7794	$0.9391 \\ 0.7643$	0.9224 0.7388	0.9144 0.7129	$0.9245 \\ 0.6875$	$0.9392 \\ 0.7828$	$0.9410 \\ 0.7781$
keel_vehicle2	0.7104	0.7552	0.7302	0.7501	0.9638	0.9653	0.7567	0.7123	0.9506	0.9605	0.9611
keel_vehicle3	0.7064	0.7235	0.7382	0.7218	0.7682	0.7626	0.7349	0.7018	0.6984	0.7663	0.7677
keel_vowel0	0.9457	0.9486	0.9600	0.9575	0.9540	0.9623	0.9624	0.9491	0.9386	0.9514	0.9501
keel_wisconsin	0.9545	0.9530	0.9546	0.9549	0.9628	0.9661	0.9579	0.9524	0.9524	0.9653	0.9622
keel_yeast-0-2-5-6_vs_3-7	0.6672	0.7057	0.7467	0.7574	0.8030	0.7745	0.7668	0.7429	0.7842	0.7999	0.8006
keel_yeast-0-2-5-7-9_vs_3	0.8472	0.8704	0.8891	0.8978	0.9037	0.8956	0.8981	0.8959	0.8976	0.9062	0.9100
keel_yeast-0-3-5-9_vs_7-8	0.5359	0.5975	0.6083	0.6212	0.6894	0.6575	0.6363	0.5887	0.5562	0.6860	0.6992
keel_yeast-0-5-6-7-9_vs_4	0.6386	0.6633	0.7126	0.7308	0.8070	0.7714	0.7309	0.6758	0.7270	0.7983	0.8035
keel_yeast-1-2-8-9_vs_7	0.3992	0.4151	0.4382	0.5713	0.6744	0.6400	0.5408	0.4298	0.4540	0.6871	0.6897
keel_yeast-1-4-5-8_vs_7	0.1336	0.1929	0.3624	0.4955	0.6271	0.5561	0.4511	0.4200	0.3575	0.6162	0.6266
keel_yeast-1_vs_7 keel_yeast-2_vs_4	0.5617 0.8507	0.5618	0.6151	0.5953	0.7323	$0.6851 \\ 0.9104$	0.6581	0.6156	0.6021	0.7173	0.7309
keel_yeast-2_vs_4 keel_yeast-2_vs_8	0.8507 0.5706	$0.8685 \\ 0.6939$	0.8838 0.7284	0.8933 0.7117	0.9297 0.6759	0.9104 0.7089	$0.8920 \\ 0.7095$	0.8698 0.6996	0.8717 0.7232	0.9320 0.6984	$0.9272 \\ 0.6859$
keel_yeast1	0.6981	0.6939 0.7010	$0.7284 \\ 0.6927$	0.7117	0.6759 0.7119	0.7089 0.7107	0.7095 0.6890	0.6606	0.7232 0.6716	0.6984 0.7128	0.6859 0.7110
keel_yeast3	0.8843	0.7010	0.0327	0.0333	0.9317	0.9320	0.0330	0.9056	0.9036	0.9309	0.9308
keel_yeast4	0.5903	0.6178	0.7016	0.7564	0.8453	0.8075	0.7664	0.7084	0.7679	0.8441	0.8453
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 $\ensuremath{\mathsf{Table}}$ 3: Geometric Mean for ensembles in the the Data-processing family.

Dataset	ESM100	ESM200	ESM500	$_{\rm ESM}$	ERUS	E-RB	EopB	EopS	EopU	ERUSR	EPart
keel_yeast5	0.8589	0.8765	0.9044	0.9269	0.9600	0.9461	0.9356	0.9154	0.9343	0.9531	0.9572
keel_yeast6	0.7062	0.7019	0.7411	0.7510	0.8599	0.7823	0.7659	0.7377	0.7313	0.8634	0.8569

 $\ensuremath{\mathsf{Table}}\xspace 4$: AUC for ensembles in the Bagging family.

Dataset	SMBAG	BAG	${ m BAGSM100}$	${ m BAGSM200}$	${ m BAGSM500}$	$_{ m BAGSM}$	BAGRUS	BAG-RB	$_{ m BAGopB}$	$_{ m BAGopS}$	BAGopU	RbB:IC+ BAGRUS	$\substack{\text{RbB:IC+}\\\text{BAGSM}}$
hddt_boundary	0.6569	0.6349	0.6621	0.6747	0.6873	0.6746	0.7278	0.6945	0.6589	0.6567	0.6594	0.6341	0.6297
hddt_breast-y	0.6471	0.6557	0.6438	0.6385	0.6275	0.6405	0.6619	0.6460	0.6481	0.6483	0.6604	0.6612	0.6524
hddt_cam	0.7132	0.7289	0.7466	0.7436	0.7438	0.7465	0.7820	0.7631	0.7651	0.7443	0.7825	0.7255	0.7237
hddt_compustat	0.9105	0.9009	0.9152	0.9173	0.9181	0.9144	0.8844	0.9107	0.9158	0.9156	0.8963	0.8962	0.9009
ndat_covtype hdd+ ggdi+ g	0.9929	0.9924	0.9935	0.9938	0.9938	0.9932	0.9902	0.9934	0.9935	0.9934	0.9925	0.9901	0.9921
ndd:_crearg hddt_estate	0.6148	0.6520	0.6366	0.6252	0.6095	0.6055	0.6517	0.6239	0.6465	0.6418	0.6539	0.6506	0.6054
hddt_german-numer	0.7761	0.7724	0.7742	0.7693	0.7616	0.7726	0.7766	0.7856	0.7752	0.7720	0.7749	0.7685	0.7711
hddt_heart-v	0.7026	0.6765	0.7066	0.7022	0.6944	0.7005	0.6910	0.7067	0.6925	0.6932	0.6783	0.6682	0.6693
hddt_hypo	0.9889	0.9820	0.9883	0.9898	0.9897	0.9888	0.9881	0.9905	0.9903	0.9899	0.9831	0.9819	0.9822
hddt_ism	0.9367	0.9326	0.9392	0.9427	0.9445	0.9440	0.9359	0.9421	0.9436	0.9423	0.9345	0.9310	0.9328
hddt_letter	0.9977	0.9991	0.9991	0.9991	0.9992	0.9993	0.9986	0.9994	0.9990	0.9991	0.9991	0.9991	0.9991
hddt_oil	0.9055	0.9038	0.9051	0.9104	0.9135	0.9148	0.9130	0.9201	0.9124	0.9115	0.9101	0.9048	0.9068
hddt_optdigits	0.9969	0.9961	0.9964	0.9969	0.9966	0.9970	0.9971	0.9980	0.9970	0.9970	0.9963	0.9961	0.9962
hddt_page	0.9908	0.9910	0.9916	0.9915	0.9913	0.9912	0.9902	0.9918	0.9909	0.9912	0.9910	0.9903	0.9902
ndu-pendigus bddt phonomo	0.9993	0.9991	0.9994	0.9993	0.9993	0.9995	0.9960	0.9990	0.9994	0.9994	0.9991	0.9990	0.9991
hddt PhosS	0.9409	0.3301	0.2398	0.3400	0.9390	0.3400	0.7613	0.3513	0.7567	0.3369	0.3533	0.9334	0.5310
hddt satimage	0.9495	0.1.00	0.9506	0.9511	0.9520	0.9516	0.1015	0.1532	0.9510	0.9522	0.9485	0.9434	0.9464
hddt segment	0.9948	0.9972	0.9973	0.9968	0.9966	0.9971	0.9986	0.9989	7966.0	0.9974	0.9971	0.9966	0.9966
keel_abalone19	0.7571	0.7617	0.7732	0.7841	0.7860	0.7698	0.7885	0.7685	0.7776	0.7758	0.7773	0.7600	0.7605
keel_abalone9-18	0.7967	0.7855	0.8142	0.8128	0.8169	0.8108	0.7873	0.8081	0.8142	0.8168	0.7931	0.7805	0.7820
keel_cleveland-0_vs_4	0.9339	0.9379	0.9371	0.9311	0.9316	0.9542	0.9217	0.9539	0.9429	0.9463	0.9438	0.9423	0.9421
keel_ecoli-0-1-3-7_vs_2-6	0.8718	0.8577	0.8682	0.8599	0.8514	0.8844	0.9529	0.9321	0.9224	0.8284	0.9085	0.8565	0.8552
$keel_ecoli-0-1-4-6_vs_5$	0.9517	0.9578	0.9649	0.9663	0.9598	0.9534	0.9538	0.9637	0.9623	0.9606	0.9688	0.9564	0.9568
$\text{keel_ecoli-0-1-4-7_vs_2-3}$	0.9182	0.9023	0.9190	0.9162	0.9252	0.9339	0.9218	0.9333	0.9230	0.9134	0.9188	0.8981	0.8998
$\text{keel_ecoli-0-1-4-7_vs_5-6}$	0.9222	0.9088	0.9416	0.9483	0.9498	0.9453	0.9346	0.9603	0.9302	0.9427	0.9270	0.9069	0.9016
$\text{keel_ecoli-0-1_vs_2-3-5}$	0.9442	0.9514	0.9531	0.9553	0.9641	0.9527	0.9403	0.9507	0.9495	0.9560	0.9583	0.9505	0.9536
keel_ecoli-0-1_vs_5	0.9280	0.9757	0.9719	0.9704	0.9575	0.9535	0.9564	0.9709	0.9531	0.9692	0.9551	0.9703	0.9708
keel_ecoli-0-2-3-4_vs_5	0.9479	0.9556	0.9510	0.9500	0.9533	0.9532	0.9664	0.9729	0.9572	0.9499	0.9635	0.9510	0.9503
keel_ecoli-0-2-6-7_vs_3-5	0.9190	0.9181	0.9235	0.9203	0.9225	0.9237	0.9248	0.9285	0.9183	0.9190	0.9280	0.9127	0.9126
keel_ecoli-0-3-4-6_vs_5	0.9376	0.9557	0.9546	0.9545	0.9479	0.9451	0.9587	0.9667	0.9557	0.9539	0.9602	0.9564	0.9563
keel_ecoll-0-3-4-7_vs_5-0	0.9277	0.9285	0.9310	0.9317	0.9348	0.9378	0.9363	0.9497	0.9317	0.9390	0.9348 0.0586	0.9267	0.9266
keel_econ-0-3-4_vs_3 keel ecoli-0-4-6 vs 5	0.9139	0.9392	0.955	0.9493	0.9474	0.9502	0.9367	0.9671	0.9323	0.9552	0.9383	0.9455	0.9462
keel ecoli-0-6-7 vs 3-5	0.9032	0.9050	0.9135	0.9104	0.9170	0.9320	0.9309	0.9346	0.9221	0.9219	0.9162	0.9031	0.9028
keel_ecoli-0-6-7_vs-5	0.9499	0.9198	0.9364	0.9441	0.9510	0.9576	0.9624	0.9610	0.9264	0.9347	0.9220	0.9211	0.9205
keel_ecoli-0_vs_1	0.9855	0.9812	0.9835	0.9857	0.9893	0.9838	0.9890	0.9925	0.9852	0.9814	0.9848	0.9804	0.9804
keel_ecoli1	0.9522	0.9504	0.9541	0.9531	0.9514	0.9529	0.9574	0.9573	0.9570	0.9535	0.9551	0.9496	0.9492
keel_ecoli2	0.9414	0.9181	0.9347	0.9398	0.9461	0.9448	0.9366	0.9473	0.9385	0.9439	0.9280	0.9173	0.9187
keel_ecoli3	0.9273	0.9230	0.9253	0.9281	0.9296	0.9299	0.9349	0.9379	0.9274	0.9265	0.9267	0.9176	0.9198
keel_ecoli4	0.9132	0.9348	0.9446	0.9407	0.9388	0.9408	0.9709	0.9724	0.9474	0.9494	0.9407	0.9343	0.9322
keel_glass-0-1-2-3_vs_4-5	0.9582	0.9665	0.9592	0.9596	0.9640	0.9600	0.9687	0.9747	0.9578	0.9597	0.9677	0.9665	0.9660
keel_glass-0-1-4-6_vs_2	0.7431	0.7071	0.7332	0.7367	0.7380	0.7533	0.7155	0.7510	0.7380	0.7416	0.7051	0.7044	0.7128
keel_glass-0-1-5_vs_2	0.7410	0.0458	0.7032	0.7199	0.7410	0.7379	0.0714	0.7400	0.7308	0.7304	0.0001	0.0484	0.0502
keel_glass-0-1-0_vs_z	0.7374	0.0041	0.7230	0.1229	0.1324	0.1232	0.0768	0.0148	0.7100	0.7351	0.0012	0.0749	0.0000
keel-grass-0-1-0-vs-0	0.9938	88000	0.0000	0.9343	0.9938	0.9940	0.9108	0.9999	88000	#666.0 0 00 88	00000	0.9926	0.0076
keel_glass-0-4_vs_0	0.3340	0.9988	0.9932	0.9940	0.9940	0.3340	0.9913	0.9904	0.9966	0.9966	0.8300	0.9970	0.9910
keel plass0	0.8673	0.8606	0.8595	0.8628	0.8730	0.8628	0.8653	0.8694	0.8605	0.8590	0.8651	0.8566	0.8562
keel_glass1	0.8266	0.8212	0.8290	0.8265	0.8250	0.8244	0.8183	0.8264	0.8265	0.8293	0.8178	0.8198	0.8197
keel_glass2	0.8073	0.7097	0.7756	0.7904	0.7976	0.7926	0.7429	0.8020	0.7628	0.7690	0.7148	0.7042	0.7042
keel-glass4	0.8861	0.9011	0.9149	0.8983	0.9197	0.8945	0.9066	0.9322	0.9299	0.8885	0.9240	0.8980	0.8983
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 ${\mbox{\scriptsize Table}}\ 4:$ AUC for ensembles in the Bagging family.

$\begin{array}{c} \text{RbB:IC+} \\ \text{BAGSM} \end{array}$	0.9903	0.9539	0.7003	0.9820	0.9562	0.9866	0.9912	0.9981	0.9895	0.8145	0.9933	0.9996	1.0000	0.9867	0.8404	0.9942	0.8362	0.9915	0.9915	0.8122	0.9058	0.7650	0.8713	0.7727	0.6805	0.8282	0.9797	0.7401	0.7900	0.9715	0.9313	0.9733	0.9064
RbB:IC+ BAGRUS	0.9903	0.9537	0.7086	0.9820	0.9569	0.9874	0.9912	0.9981	0.9898	0.8166	0.9932	0.9996	1.0000	0.9869	0.8410	0.9944	0.8360	0.9913	0.9915	0.8068	0.9023	0.7637	0.8688	0.7836	0.6803	0.8397	0.9792	0.7397	0.7905	0.9713	0.9298	0.9721	0.9043
BAGopU	0.9893	0.9535	0.7130	0.9820	0.9581	0.9914	0.9931	0.9982	0.9906	0.8172	0.9953	0.9999	1.0000	0.9877	0.8450	0.9940	0.8411	0.9923	0.9916	0.8491	0.9455	0.7660	0.8877	0.7947	0.6788	0.8411	0.9806	0.8028	0.7948	0.9737	0.9312	0.9883	0.9089
$_{ m BAGopS}$	0.9912	0.9528	0.7038	0.9820	0.9575	0.9913	0.9915	0.9990	0.9907	0.8156	0.9970	0.9999	1.0000	0.9884	0.8486	0.9929	0.8426	0.9972	0.9914	0.8488	0.9419	0.7597	0.8958	0.7683	0.6676	0.8150	0.9790	0.8056	0.7919	0.9732	0.9353	0.9826	0.9099
BAGopB	0.9902	0.9554	0.7081	0.9820	0.9578	0.9905	0.9925	0.9984	0.9908	0.8175	0.9972	0.9999	1.0000	0.9889	0.8493	0.9925	0.8446	0.9969	0.9915	0.8503	0.9400	0.7612	0.8940	0.7613	0.6585	0.8129	0.9796	0.7863	0.7940	0.9737	0.9414	0.9858	0.9086
BAG-RB	0.9905	0.9602	0.7130	1.0000	0.9605	0.9949	0.9953	0.9995	0.9912	0.8214	0.9986	1.0000	1.0000	0.9896	0.8510	0.9945	0.8475	0.9965	0.9924	0.8533	0.9444	0.7638	0.8963	0.7592	0.6617	0.8184	0.9799	0.8204	0.7992	0.9745	0.9381	0.9901	0.9168
BAGRUS	0.9661	0.9540	0.7143	0.9840	0.9550	0.9941	0.9937	0.9974	0.9894	0.8185	0.9965	1.0000	1.0000	0.9887	0.8462	0.9923	0.8415	0.9917	0.9915	0.8592	0.9454	0.7702	0.8898	0.7749	0.6786	0.8186	0.9790	0.8085	0.7991	0.9736	0.9317	0.9912	0.9343
$_{ m BAGSM}$	0.9910	0.9507	0.7019	0.9820	0.9581	0.9892	0.9886	0.9991	0.9905	0.8157	0.9957	1.0000	1.0000	0.9888	0.8481	0.9910	0.8433	0.9975	0.9910	0.8496	0.9441	0.7536	0.8905	0.7470	0.6586	0.7995	0.9796	0.8213	0.7920	0.9738	0.9358	0.9831	0.9050
$_{ m BAGSM500}$	0.9922	0.9559	0.7041	0.66.0	0.9588	0.9920	0.9913	0.9993	0.9907	0.8099	0.9968	1.0000	1.0000	0.9880	0.8482	0.9911	0.8406	0.9972	0.9911	0.8487	0.9413	0.7617	0.8931	0.7794	0.6751	0.8247	0.9770	0.8251	0.7899	0.9728	0.9379	0.9838	0.9060
${ m BAGSM200}$	0.9922	0.9541	0.7031	0.9860	0.9570	0.9922	0.9914	0.9994	0.9909	0.8147	0.9970	1.0000	1.0000	0.9884	0.8486	0.9909	0.8435	0.9962	0.9911	0.8394	0.9432	0.7646	0.8937	0.7952	0.6739	0.8332	0.9810	0.8282	0.7903	0.9730	0.9357	0.9834	0.9095
${ m BAGSM100}$	0.9923	0.9568	0.7052	0.9820	0.9574	0.9919	0.9914	0.9989	0.9908	0.8144	0.9960	1.0000	1.0000	0.9887	0.8477	0.9921	0.8431	0.9962	0.9911	0.8368	0.9366	0.7721	0.8906	0.7975	0.6806	0.8426	0.9809	0.8231	0.7912	0.9724	0.9374	0.9836	0.9097
BAG	0.9916	0.9551	0.7062	0.9820	0.9574	0.9889	0.9907	0.9982	0.9905	0.8160	0.9945	0.9996	1.0000	0.9878	0.8425	0.9946	0.8403	0.9928	0.9917	0.8112	0.9082	0.7653	0.8782	0.7919	0.6793	0.8478	0.9803	0.7518	0.7922	0.9721	0.9306	0.9826	0.9034
SMBAG	0.9921	0.9513	0.7021	0.9820	0.9528	0.9919	0.9936	0.9988	0.9902	0.8143	0.9953	1.0000	1.0000	0.9887	0.8464	0.9930	0.8423	0.9969	0.9912	0.8475	0.9421	0.7473	0.8826	0.7513	0.6480	0.7946	0.9781	0.8107	0.7903	0.9719	0.9373	0.9817	0.8986
Dataset	keel_glass5	keel_glass6	keel_haberman	keel_iris0	$keel_led7digit-0-2-4-5-6-$	keel_new-thyroid1	keel_new-thyroid2	keel_page-blocks-1-3_vs_4	keel_page-blocks0	keel_pima	keel_segment0	keel_shuttle-c0-vs-c4	keel_shuttle-c2-vs-c4	keel_vehicle0	keel_vehicle1	keel_vehicle2	keel_vehicle3	keel_vowel0	keel_wisconsin	$keel_yeast-0-2-5-6_vs_3-7$	keel_yeast-0-2-5-7-9_vs_3	$keel_yeast-0-3-5-9_vs_7-8$	$keel_yeast-0-5-6-7-9_vs_4$	$\text{keel_yeast-1-2-8-9_vs_7}$	$\text{keel_yeast-1-4-5-8_vs_7}$	keel_yeast-1_vs_7	keel_yeast-2_vs_4	keel_yeast-2_vs_8	keel_yeast1	keel_yeast3	keel_yeast4	keel_yeast5	keel_yeast6

 $_{\rm Table\ 5:}$ F-Measure for ensembles in the Bagging family.

$\begin{array}{c} \text{RbB:IC+} \\ \text{BAGSM} \end{array}$	0.0000	0.4112	0.0171	0.3947	0.8760	0.5193	0.1972	0.0218	0.3631	0.9127	0.0451	0.9563	0.5041	0.9791	0.0685	0.3033	0.0868	0.6499	0.9783	0.0189	0.3752	0.3578	0.2367	0.7585	0.7033	0.6629	0.7513	0.7412	0.7463	0.7849	0.7669	0.7500	0.7037	0.6026	0.8217	0.9765	0.7829	0.8012	0.5915	0.7225	0.8575	0.2215	0.1764	0.1356	0.6189	0.9505	0.7834	0.7257	0.1680	0.4958	
RbB:IC+ BAGRUS	0.0218	0.4284	0.1350	0.3918	0.8633	0.5284	0.2100	0.3403	0.3959	0.9059	0.6273	0.9555	0.5074	0.9778	0.0113	0.3004	0.133	0.6480	0.9774	0.0427	0.3469	0.4328	0.5300	0.7470	0.6693	0.6677	0.7070	0.7272	0.7424	0.7887	0.7471	0.7232	0.7489	0.7161	0.8149	0.9765	0.7754	0.8001	0.5836	0.7109	0.8618	0.2100	0.1753	0.1560	0.6189	0.9505	0.7834	0.7226	0.0332 0.1608	0.4958	
BAGopU	0.0377	0.4437	0.2775	0.2031	0.8651	0.5294	0.1627	0.5540	0.3934	0.0803	0.0132	0.9423	0.4654	0.9771	0.0140	0.3830	0.2099	0.6257	0.9733	0.0104	0.2716	0.4734	0.4630	0.7281	0.6508	0.6321	0.7282	0.6406	0.7432	0.7673	0.7247	0.7476	0.7396	0.1028	0.8194	0.9729	0.7862	0.7687	0.5731	0.7156	0.8630	0.1475	0.1834	0.1164	0.6008	0.9505	0.8223	0.7279	0.1699	0.3945	
$_{ m BAGopS}$	0.0389	0.4075	0.1205	0.4114	0.8785	0.5441	0.0674	0.0391	0.3875	0.0887	0.0001	0.9551	0.5390	0.9800	0.8639	0.0000	0.1038	0.6569	0.9764	0.0568	0.3535	0.5667	0.4765	0.7562	0.7068	0.6852	0.7318	0.7170	0.7467	0.7669	0.7606	0.7327	0.7438	0.7055	0.8143	0.9765	0.7810	0.7912	0.5874	0.7005	0.8580	0.2159	0.2323	0.2311	0.7507	0.9505	0.8251	0.7213	0.0460 0.1640	0.5059	
$_{ m BAGopB}$	0.0892	0.4335	0.2313	0.4074	0.8772	0.5570	0.1514	0.5004	0.4340	0.9090	0.5762	0.9488	0.4976	0.9787	0.0031	0.7088	0.2145	0.6423	0.9669	0.0509	0.3124	0.5280	0.1519	0.6940	0.6867	0.6822	0.7061	0.6206	0.7250	0.7226	0.7026	0.6932	0.7190	0.1028	0.8119	0.9716	0.7838	0.7977	0.5900	0.6804	0.8642	0.2317	0.2368	0.2416	0.8034	0.9505	0.8891	0.7229	0.2194	0.4351	
BAG-RB	0.1132	0.4496	0.1916	0.3632	0.8586	0.5790	0.2373	0.6002	0.4350	0.0100	0.5660	0.9618	0.5254	0.9811	0.0300	7007	0.1204	0.6427	0.9753	0.0607	0.3487	0.6396	0.6226	0.7310	0.6721	0.7195	0.7247	0.7272	0.7135	0.7537	0.7425	0.7103	0.7475	0.1038	0.7614	0.9728	0.7847	0.7910	0.6174	0.6947	0.8508	0.3398	0.2671	0.2425	0.7882	0.9505	0.8946	0.7206	0.5791	0.5512	
BAGRUS	0.1281	0.4726	0.2538	0.2318	0.7199	0.5757	0.2725	0.5963	0.4416	0.7071	0.3581	0.8206	0.2933	0.9483	0.0037	0.7719	0.2101	0.5635	0.9426	0.0343	0.2554	0.4915	0.2029	0.5404	0.5330	0.5042	0.5886	0.5603	0.6004	0.6466	0.5677	0.5492	0.6083	0.6167	0.6766	0.9716	0.7827	0.6994	0.5582	0.5587	0.8223	0.2176	0.2324	0.2311	0.4820	0.9505	0.4965	0.7126	0.2445	0.3791	
$_{ m BAGSM}$	0.0680	0.4102	0.1282	0.4006	0.8772	0.5518	0.2026	0.9501	0.4009	0.0000	0.6191	0.9489	0.5144	0.9835	0.0303	0.0150	0.0545	0.6566	0.9723	0.0528	0.3557	0.5778	0.5687	0.7268	0.6954	0.7330	0.7583	0.6924	0.7540	0.7427	0.7696	0.7108	0.7444	0.7303	0.7932	0.9765	0.7834	0.7890	0.6169	0.7094	0.8473	0.2671	0.2598	0.2354	0.7924	0.9505	0.8940	0.7275	0.2358	0.4944	
${\rm BAGSM500}$	0.0512	0.4104	0.1166	0.4064	0.8803	0.5492	0.1958	0.5448	0.4182	0.9003	0.0735	0.9547	0.5406	0.9817	0.001.9	0.01.0	0.1428	0.6614	0.9726	0.0222	0.3619	0.6014	0.5769	0.7688	0.6987	0.7199	0.7474	0.7154	0.7543	0.7592	0.7327	0.7350	0.7412	0.1328	0.8058	0.9715	0.7795	0.7897	0.6263	0.7159	0.8535	0.2555	0.2849	0.2202	0.7846	0.9505	0.8946	0.7227	0.2029	0.5229	
${ m BAGSM200}$	0.0419	0.4249	0.1097	0.3310	0.8783	0.5580	0.1376 0.5435	0.0433	0.4002	0.9112	0.6845	0.9543	0.5223	0.9791	0.8730	0.2051	0.1350	0.6631	0.9758	0.0105	0.3563	0.5580	0.4214	0.7892	0.7092	0.6865	0.7075	0.7408	0.7353	0.7802	0.7408	0.7614	0.7419	0.1130	0.8136	0.9740	0.7809	0.7933	0.6035	0.7287	0.8545	0.1785	0.1793	0.1889	0.6734	0.9505	0.8279	0.7184	0.0871 0.1594	0.4992	
${ m BAGSM100}$	0.0258	0.4118	0.0990	0.2561	0.8756	0.5475	0.0771	0.5520	0.4007	0.9121	0.0081	0.9537	0.5069	0.9787	0.0193	0.202.0	0.1264	0.6541	0.9790	0.0000	0.3236	0.5291	0.4067	0.8036	0.6929	0.6761	0.7199	0.7604	0.7456	0.7928	0.7329	0.7550	0.7884	0.1.680	0.8254	0.9765	0.7793	0.7961	0.5799	0.7284	0.8539	0.1242	0.1516	0.1402	0.6664	0.9505	0.8279	0.7280	0.0866	0.4996	
$_{ m BAG}$	0.0064	0.3807	0.0261	0.0913	0.8651	0.5088	0.0129	0.5115	0.3498	0.9109	0.6230	0.9540	0.4416	0.9794	0.8780	0.2010	0.1015	0.6312	0.9765	0.0000	0.2037	0.3818	0.2867	0.7412	0.6762	0.6397	0.7370	0.7678	0.7532	0.7795	0.7818	0.7405	0.7377	0.5057	0.8260	0.9778	0.7670	0.8090	0.5421	0.7258	0.8619	0.0200	0.0376	0.0222	0.5638	0.9505	0.7317	0.7172	0.5940 0.0530	0.4618	
SMBAG	0.1230	0.4105	0.1511	0.4131	0.8679	0.5458	0.2220	0.5563	0.4102	0.0000	0.5866	0.9474	0.4729	0.9793	0.0010	0.2002	0.1697	0.6485	0.9710	0.0501	0.3478	0.5530	0.4168	0.7108	0.6187	0.7071	0.7056	0.6579	0.7015	0.7169	0.7149	0.7214	0.6821	0.0031	0.7690	0.9753	0.7841	0.7794	0.5852	0.6875	0.8469	0.2984	0.3228	0.2573	0.8041	0.9505	0.8946	0.7273	0.3022	0.5029	
Dataset	hddt_boundary	hddt_breast-y	hddt_cam	hddt_compustat	hddt_covtype	hddt_credit-g	hddt_estate	ndat_german-numer	hddt_heart-v	ndat_nypo	hddt_lsm	nddt_letter	hddt_oll	nddt_optdigits	naat-page baat nondicite	hddt phoneme	hddt PhosS	hddt satimage	hddt_segment	keel_abalone19	keel_abalone9-18	keel_cleveland-0_vs_4	keel_ecoli-0-1-3-7_vs_2-6	$keel_ecoli-0-1-4-6_vs_5$	$\text{keel_ecoli-0-1-4-7_vs_2-3}$	$\text{keel_ecoli-0-1-4-7_vs_5-6}$	$keel_ecoli-0-1_vs_2-3-5$	keel_ecoli-0-1_vs_5	$keel_ecoli-0-2-3-4_vs_5$	keel_ecoli-0-2-6-7_vs_3-5	keel_ecoli-0-3-4-6_vs_5	keel_ecoli-0-3-4-7_vs_5-6	keel_ecoll-0-3-4_vs_5	keel_ecoll=0=4=0_vs_3	keel ecoli-0-6-7 vs 5	keel_ecoli-0_vs_1	keel_ecoli1	keel_ecoli2	keel_ecoli3	keel_ecoli4	$keel_glass-0-1-2-3_vs_4-5$	$keel_glass-0-1-4-6_vs_2$	keel_glass-0-1-5_vs_2	keel_glass-0-1-6-vs- $\frac{1}{2}$	keel_glass-0-1-6_vs_5	keel_glass-0-4_vs_5	keel_glass-U-b_vs_5	keel-glassU	keel_glass1 keel_glass2	keel_glass4	Continued on next page

 $_{\rm Table\ 5:}$ F-Measure for ensembles in the Bagging family.

$\substack{\text{RbB:IC+}\\\text{BAGSM}}$	0.7353	0.8410	0.4711	0.9813	0.7676	0.9059	0.9223	0.9284	0.8744	0.6578	0.9751	0.9943	0.9000	0.8791	0.5385	0.9437	0.5198	0.9086	0.9449	0.5697	0.7670	0.3934	0.4980	0.1870	0.1485	0.3003	0.7506	0.3452	0.5924	0.7832	0.4472	0.7119	0.5546
RbB:IC+ BAGRUS	0.7353	0.8415	0.4635	0.9813	0.7560	0.9059	0.9223	0.9284	0.8726	0.6587	0.9727	0.9943	0.9000	0.8848	0.5492	0.9437	0.5241	0.9086	0.9449	0.5326	0.7272	0.3573	0.4910	0.2637	0.1790	0.3597	0.7497	0.2787	0.5749	0.7715	0.4205	0.7241	0.4876
${ m BAGopU}$	0.7499	0.8310	0.4509	0.9813	0.7325	0.8957	0.8935	0.8910	0.8695	0.6583	0.9652	0.9945	0.9800	0.8841	0.5371	0.9427	0.5369	0.8798	0.9484	0.5640	0.7380	0.3331	0.5125	0.1744	0.0686	0.3465	0.7404	0.6345	0.5746	0.7805	0.3814	0.6738	0.4480
$_{ m BAGopS}$	0.7550	0.8369	0.4750	0.9813	0.7928	0.9066	0.9255	0.9365	0.8644	0.6498	0.9747	0.9984	0.9800	0.8812	0.5848	0.9354	0.5489	0.9001	0.9463	0.5943	0.7909	0.3810	0.4991	0.1759	0.1267	0.3073	0.7294	0.6194	0.5790	0.7942	0.4160	0.7256	0.5256
$_{ m BAGopB}$	0.7745	0.8380	0.4962	0.9813	0.6997	0.8793	0.9137	0.9215	0.8571	0.6715	0.9712	0.9945	0.9800	0.8838	0.6048	0.9266	0.5878	0.8946	0.9467	0.5802	0.7635	0.3607	0.5148	0.2061	0.1258	0.3348	0.7453	0.5511	0.5887	0.7833	0.4079	0.6643	0.4433
BAG-RB	0.7571	0.8423	0.4943	0.9813	0.7779	0.9124	0.8993	0.9271	0.8530	0.6721	0.9700	1.0000	1.0000	0.8803	0.6197	0.9404	0.6140	0.8787	0.9501	0.5957	0.7775	0.3869	0.5246	0.1785	0.1565	0.3350	0.7292	0.5572	0.6027	0.7811	0.3884	0.7269	0.4575
BAGRUS	0.4689	0.7607	0.5018	0.9813	0.5933	0.8453	0.8353	0.5009	0.8002	0.6683	0.9346	1.0000	0.7900	0.8701	0.6304	0.9186	0.6160	0.7928	0.9488	0.5521	0.7311	0.3652	0.4778	0.1544	0.1339	0.2940	0.6910	0.3764	0.6004	0.7566	0.2516	0.4614	0.2570
$_{ m BAGSM}$	0.7557	0.8373	0.4924	0.9813	0.7792	0.9077	0.9157	0.9325	0.8559	0.6642	0.9726	1.0000	1.0000	0.8828	0.5903	0.9227	0.5839	0.9024	0.9460	0.6011	0.7966	0.4094	0.5064	0.1654	0.1534	0.2724	0.7282	0.5919	0.5953	0.7903	0.4286	0.7236	0.4968
${ m BAGSM500}$	0.7941	0.8362	0.4979	0.9813	0.7875	0.9051	0.9055	0.9325	0.8628	0.6645	0.9724	1.0000	1.0000	0.8819	0.6183	0.9240	0.6006	0.9083	0.9478	0.5960	0.7899	0.4106	0.5007	0.2554	0.0899	0.3213	0.7336	0.6421	0.5931	0.7904	0.4299	0.7332	0.5600
${ m BAGSM200}$	0.7785	0.8429	0.4962	0.9813	0.7953	0.8945	0.9175	0.9325	0.8697	0.6696	0.9741	1.0000	1.0000	0.8823	0.6005	0.9206	0.5837	0.9028	0.9478	0.5722	0.7752	0.4047	0.4856	0.2214	0.0198	0.3451	0.7304	0.6385	0.5910	0.7933	0.4109	0.7295	0.5443
${ m BAGSM100}$	0.7859	0.8495	0.4875	0.9813	0.7788	0.8997	0.9036	0.9231	0.8706	0.6620	0.9753	1.0000	1.0000	0.8846	0.5900	0.9248	0.5570	0.8972	0.9481	0.5466	0.7661	0.3471	0.4885	0.1997	0.0083	0.3396	0.7394	0.4389	0.5938	0.7892	0.4075	0.7238	0.5551
BAG	0.7470	0.8401	0.3189	0.9813	0.7789	0.8931	0.9054	0.9335	0.8704	0.6422	0.9726	0.9943	0.9200	0.8851	0.5112	0.9469	0.5018	0.9150	0.9436	0.5214	0.7619	0.2270	0.4698	0.1035	0.0095	0.3097	0.7570	0.0000	0.5493	0.7697	0.3396	0.7154	0.4476
SMBAG	0.7650	0.8332	0.4888	0.9813	0.6920	0.9190	0.9134	0.9325	0.8487	0.6663	0.9689	1.0000	1.0000	0.8775	0.6119	0.9320	0.6014	0.8906	0.9480	0.5692	0.7612	0.4050	0.4906	0.2068	0.1518	0.3287	0.7196	0.4588	0.5952	0.7851	0.3830	0.7252	0.4342
Dataset	keel_glass5	keel_glass6	keel_haberman	keel_iris0	$keel_led7digit-0-2-4-5-6-$	keel_new-thyroid1	keel_new-thyroid2	keel_page-blocks-1-3_vs_4	keel_page-blocks0	keel_pima	keel_segment0	keel_shuttle-c0-vs-c4	keel_shuttle-c2-vs-c4	keel_vehicle0	keel_vehicle1	keel_vehicle2	keel_vehicle3	keel_vowel0	keel_wisconsin	$keel_yeast-0-2-5-6_vs_3-7$	$keel_yeast-0-2-5-7-9_vs_3$	$keel_yeast-0-3-5-9_vs_7-8$	$\text{keel_yeast-0-5-6-7-9_vs_4}$	$\text{keel_yeast-1-2-8-9_vs_7}$	$\text{keel_yeast-1-4-5-8_vs_7}$	keel_yeast-1_vs_7	keel_yeast-2_vs_4	keel_yeast-2_vs_8	keel_yeast1	keel_yeast3	keel_yeast4	keel_yeast5	keel_yeast6

 $\ensuremath{^{\mathrm{Table}}}\xspace$ 6: Geometric Mean for ensembles in the Bagging family.

SME 0.3	SMBAG 0.3028	BAG 0.0255	BAGSM100 0.0834	BAGSM200 0.1362	BAGSM500 0.1592	BAGSM 0.1819	BAGRUS 0.6608	BAG-RB 0.2730	BAGopB 0.2418	BAGopS 0.1128	BAGopU 0.1832	RbB:IC+ BAGRUS 0.0707	RbB:IC+ BAGSM 0.0000
4 6		0.5197	0.5526	0.5658	0.5543	0.5526	0.6053	0.5872	0.5687	0.5471	0.5789	0.5662	0.5498
0.3296		0.1144	0.2411	0.2550	0.2655	0.2805	0.6870	0.3610	0.4943	0.2701	0.6291	0.2877	0.0903
0.9547		0.9086	0.9267	0.9332	0.9427	0.9489	0.9519	0.9555	0.9480	0.9476	0.9165	0.9406	0.9434
0.6617		0.6221	0.6621	0.6719	0.6647	0.6662	0.6918	0.6941	0.6720	0.6577	0.6455	0.6439	0.6338
0.4883		0.0706	0.6626	0.3008	0.4203	0.4467	0.5028	0.5266	0.3384	0.1781	0.6661	0.4332	0.4418
0.5601		0.4915	0.5413	0.5461	0.5701	0.5463	0.6080	0.5871	0.5829	0.5280	0.5445	0.5543	0.5055
0.9550		0.9471	0.9472	0.9490	0.9498	0.9547	0.9605	0.9635	0.9644	0.9497	0.9538	0.9580	0.9511
0.8744		0.7123	0.7653	0.7952	0.8197	0.8701	0.8915	0.8836	0.8724	0.8351	0.7819	0.8378	0.8494
0.9747		0.9653	0.9656	0.9656	0.9654	0.9629	0.9807	0.9719	0.9695	0.9663	0.9696	0.9721	0.9667
0.9890		0.9845	0.9854	0.9862	0.9886	0.9895	0.9868	0.9902	0.9881	0.9875	0.9863	0.9846	0.9851
0.9515		0.9237	0.9378	0.9423	0.9487	0.9507	0.9571	0.9569	0.9502	0.9453	0.9362	0.9371	0.9373
0.9813		0.9697	0.9760	0.9810	0.9808	0.9824	0.9813	0.9869	0.9817	0.9794	0.9746	0.9745	0.9754
0.8693		0.8434	0.8668	0.8707	0.8686	0.8693	0.8588	0.8663	0.8676	0.8659	0.8489	0.8461	0.8590
0.3658	_	0.2330	0.2670	0.2786	0.2896	0.1580	0.7059	0.2598	0.5699	0.2426	0.6287	0.2905	0.2141
0.8341		0.7228	0.7655	0.7859	0.8041	0.8147	0.8696	0.8440	0.8141	0.8041	0.7726	0.7768	0.7642
0.9872	_	0.9836	0.9866	0.9863	0.9858	0.9857	0.9824	0.9880	0.9852	0.9864	0.9838	0.9848	0.9847
0.3784		0.0000	0.0000	0.0250	0.0500	0.2229	0.7165	0.3001	0.4378	0.1950	0.2190	0.2786	0.0747
0.6503		0.3497	0.4806	0.5236	0.5649	0.5966	0.7133	0.6237	0.5680	0.5505	0.5747	0.6245	0.5895
0.7115		0.4921	0.6318	0.6620	0.6895	0.6681	0.8377	0.7622	0.7172	0.6700	0.6249	0.5544	0.4698
0.6323		0.3619	0.5292	0.6014	0.7605	0.7397	0.8188	0.7971	0.7213	0.6299	0.7329	0.6657	0.3041
0.8470		0.8050	0.8758	0.8741	0.8570	0.8325	0.8512	0.8442	0.8474	0.8390	0.8524	0.8377	0.8281
0.8506		0.7312	0.7735	0.7871	0.8202	0.8403	0.8374	0.8359	0.8136	0.7814	0.7621	0.7659	0.7513
0.8760		0.8166	0.8333	0.8276	0.8673	0.8784	0.8621	0.8763	0.8460	0.8486	0.8461	0.8452	0.8568
0.8121		0.8405	0.8505	0.8426	0.8191	0.8060	0.8500	0.8547	0.8250	0.8201	0.8348	0.8355	0.8371
2		0.8471	0.8554	0.8590	0.8803	0.8798	0.8670	0.8830	0.8704	0.8561	0.8700	0.8596	0.8599
3		0.8530	0.8644	0.8626	0.8646	0.8576	0.8651	0.8636	0.8554	0.8654	0.8659	0.8685	0.8681
0.8504		0.8783	0.8672	0.8682	0.8619	0.8641	0.8497	0.8700	0.8530	0.8710	0.8701	0.8586	0.8558
0.8599		0.8130	0.8422	0.8590	0.8429	0.8357	0.8249	0.8405	0.8166	0.8339	0.8528	0.8382	0.8255
0.8450		0.8579	0.8651	0.8630	0.8567	0.8452	0.8678	0.8804	0.8210	0.8695	0.8310	0.833	0.8674
33		0.8211	0.8189	0.8327	0.8351	0.8285	0.8414	0.8405	0.8439	0.8297	0.8358	0.8218	0.8265
Õ		0.8924	0.9021	0.9007	0.9045	0.9074	0.8968	0.9034	0.9098	0.9103	0.9108	0.9103	0.9113
98		0.9820	0.9814	0.9800	0.9786	0.9814	0.9785	0.9793	0.9785	0.9814	0.9792	0.9814	0.9814
0.8853		0.8422	0.8663	0.8732	0.8807	0.8772	0.8975	0.8886	0.8858	0.8658	0.8825	0.8556	0.8622
0.8796		0.8649	0.8702	0.8697	0.8725	0.8723	0.8789	0.8839	0.8817	0.8693	0.8789	0.8729	0.8734
0.8090		0.6900	0.7394	0.7725	0.8113	0.8242	0.8739	0.8519	0.7908	0.7000	0.7554	0.7497	0.7303
0.8220		0.8252	0.8440	0.8492	0.8526	0.8348	0.9036	0.8385	0.8215	0.8232	0.8479	0.8466	0.8298
0.9081		0.9085	0.9008	0.9100	0.9174	0.9040	0.9100	0.9183	0.9241	0.9125	0.9199	0.9097	0.9050
0.0311		0.0333	0.1953	0.2040	0.4008	0.4573	0.0103	0.3000	0.4887	0.3382	0.3003	0.3503	0.3109
0.5894		0.0080	0.2450	0.2823	0.4868	0.4567	0.5862	0.4768	0.4941	0.4092	0.4060	0.3294	0.3027
0.4944		0.0354	0.2515	0.3236	0.3840	0.4257	0.6103	0.4649	0.5077	0.3965	0.2618	0.2670	0.2228
		0.0023	0.000	0.000	0.0030	0.000	0.9410	0.9130	0.3040	0.0000	0.0030	0.000	0.000
5 2		0.9959	0.9939	0.9939	0.9939	0.9939	0.3333	0.9939	0.9939	0.3939	0.9959	0.9939	0.9939
, 5		0.3321	0.6340	0.534	0.7991	0.7987	0.2010	0.7967	10467	0.7924	0.7992	0.5913	0.5919
0.7438		0.6757	0.7444	0.7546	0.7355	0.7307	0.7386	0.7466	0.7338	0.7188	0.6873	0.7083	0.7032
7	0.5798	0.0820	0.1498	0.2773	0.3411	0.4446	0.6610	0.5043	0.4965	0.3102	0.3591	0.2896	0.2918
7	0.7470	0.5959	0.6602	0.6800	0.6974	0.7136	0.8259	0.7836	0.6804	0.6773	0.7042	0.6334	0.6334

Table 6: Geometric Mean for ensembles in the Bagging family.

$\substack{\text{RbB:IC+}\\\text{BAGSM}}$	0.8292	0.9054	0.6215	0.9816	0.8767	0.9383	0.9497	0.9516	0.9380	0.7324	0.9815	0.9996	0.9082	0.9247	0.6648	0.9608	0.6425	0.9415	0.9583	0.7329	0.8745	0.5853	0.6975	0.4043	0.3029	0.5115	0.8597	0.4511	0.7072	0.8962	0.6845	0.8406	0.7635
RbB:IC+ BAGRUS	0.8292	0.9142	0.6076	0.9816	0.8855	0.9383	0.9497	0.9516	0.9323	0.7331	0.9811	0.9996	0.9082	0.9281	0.6758	0.9611	0.6484	0.9415	0.9585	0.7233	0.8623	0.5618	0.7022	0.5941	0.4648	0.6328	0.8634	0.4470	0.6864	0.8816	0.7441	0.8651	0.7717
BAGopU	0.9002	0.9138	0.5957	0.9816	0.8716	0.9335	0.9363	0.9491	0.9287	0.7319	0.9811	0.9996	0.9816	0.9324	0.6653	0.9630	0.6615	0.9485	0.9620	0.7853	0.8971	0.5148	0.7103	0.3651	0.3186	0.5358	0.8750	0.7340	0.6839	0.9116	0.7512	0.9292	0.7355
$_{ m BAGopS}$	0.9166	0.9076	0.6273	0.9816	0.8956	0.9435	0.9527	0.9672	0.9416	0.7263	0.9853	0.9999	0.9816	0.9310	0.7148	0.9589	0.6793	0.9611	0.9599	0.7544	0.9034	0.5558	0.6843	0.3296	0.2971	0.5271	0.8863	0.7329	0.6894	0.9128	0.6749	0.8879	0.7630
$_{ m BAGopB}$	0.9531	0.9198	0.6401	0.9816	0.8776	0.9302	0.9503	0.9766	0.9472	0.7450	0.9852	0.9996	0.9816	0.9383	0.7354	0.9570	0.7216	0.9673	0.9605	0.7714	0.9072	0.6110	0.7293	0.4324	0.4057	0.6072	0.8972	0.7146	0.7021	0.9259	0.7438	0.9313	0.7834
BAG-RB	0.9754	0.9235	0.6454	0.9816	0.8960	0.9494	0.9420	0.9698	0.9537	0.7451	0.9847	1.0000	1.0000	0.9394	0.7541	0.9665	0.7524	0.9681	0.9635	0.7731	0.9022	0.6694	0.7433	0.4947	0.4222	0.6455	0.9070	0.7286	0.7212	0.9294	0.8055	0.9391	0.7869
BAGRUS	0.9473	0.9036	0.6528	0.9816	0.8741	0.9375	0.9437	0.9309	0.9525	0.7401	0.9789	1.0000	0.8027	0.9436	0.7722	0.9611	0.7637	0.9545	0.9636	0.7994	0.9057	0.7023	0.8004	0.7062	0.6277	0.7354	0.9226	0.7136	0.7199	0.9311	0.8570	0.9555	0.8691
$_{ m BAGSM}$	0.9315	0.9169	0.6457	0.9816	0.9016	0.9413	0.9483	0.9634	0.9453	0.7390	0.9855	1.0000	1.0000	0.9350	0.7236	0.9536	0.7197	0.9700	0.9601	0.7655	0.9070	0.6174	0.7295	0.4163	0.3842	0.5337	0.8934	0.7369	0.7110	0.9175	0.7385	0.9179	0.7687
${ m BAGSM500}$	0.9671	0.9137	0.6483	0.9816	0.9025	0.9410	0.9437	0.9634	0.9448	0.7307	0.9854	1.0000	1.0000	0.9359	0.7552	0.9560	0.7434	0.9636	0.9631	0.7466	0.8940	0.6028	0.7061	0.4204	0.2109	0.5475	0.8853	0.7344	0.7149	0.9144	0.6484	0.8845	0.7343
${ m BAGSM200}$	0.9233	0.9179	0.6488	0.9816	0.8930	0.9337	0.9464	0.9634	0.9379	0.7415	0.9854	1.0000	1.0000	0.9329	0.7326	0.9528	0.7186	0.9511	0.9622	0.7045	0.8641	0.5703	0.6701	0.3501	0.0513	0.5148	0.8685	0.7162	0.7093	0.9052	0.5810	0.8643	0.7057
${ m BAGSM100}$	0.9025	0.9130	0.6365	0.9816	0.8781	0.9366	0.9388	0.9519	0.9321	0.7370	0.9854	1.0000	1.0000	0.9332	0.7172	0.9530	0.6885	0.9474	0.9616	0.6692	0.8499	0.4963	0.6555	0.3282	0.0255	0.4944	0.8639	0.5009	0.7074	0.8963	0.5575	0.8546	0.6980
BAG	0.8595	0.9021	0.4590	0.9816	0.8729	0.9329	0.9340	0.9559	0.9196	0.7180	0.9793	0.9996	0.9266	0.9288	0.6362	0.9631	0.6221	0.9432	0.9570	0.6301	0.8333	0.3363	0.6141	0.1947	0.0256	0.4431	0.8549	0.000.0	0.6536	0.8705	0.4765	0.8249	0.5959
$_{ m SMBAG}$	0.9556	0.9190	0.6413	0.9816	0.8864	0.9505	0.9500	0.9634	0.9462	0.7402	0.9853	1.0000	1.0000	0.9355	0.7487	0.9614	0.7420	0.9667	0.9616	0.7666	0.9025	0.6536	0.7346	0.5552	0.4614	0.6384	0.9002	0.7089	0.7135	0.9225	0.7684	0.9370	0.7722
Dataset	keel_glass5	keel_glass6	keel_haberman	keel_iris0	$keel_led7digit-0-2-4-5-6-$	keel_new-thyroid1	keel_new-thyroid2	keel_page-blocks-1-3_vs_4	keel_page-blocks0	keel_pima	keel_segment0	keel_shuttle-c0-vs-c4	keel_shuttle-c2-vs-c4	keel_vehicle0	keel_vehicle1	keel_vehicle2	keel_vehicle3	keel_vowel0	keel_wisconsin	$keel_yeast-0-2-5-6_vs_3-7$	keel_yeast-0-2-5-7-9_vs_3	$keel_yeast-0-3-5-9_vs_7-8$	$keel_yeast-0-5-6-7-9_vs_4$	$\text{keel_yeast-1-2-8-9_vs_7}$	$keel_yeast-1-4-5-8_vs_7$	keel_yeast-1_vs_7	keel_yeast-2_vs_4	keel_yeast-2_vs_8	keel_yeast1	keel_yeast3	keel_yeast4	keel_yeast5	keel_yeast6

 $\ensuremath{^{\text{Table}}}$ 7: AUC for ensembles in the Boosting Family.

Dataset	AdaM1W	AdaM1S	RUSB	MultiW	MultiS	SB100	SB200	SB500	RB-B
hddt_boundary	0.7246	0.7096	0.6975	0.7126	0.6729	0.6791	0.6788	0.6821	0.7085
hddt_breast-y	0.6283	0.6173	0.6441	0.6249	0.6297	0.6125	0.6023	0.5988	0.6223
$hddt_cam$	0.7601	0.7615	0.8074	0.7576	0.7732	0.7738	0.7697	0.7324	0.7665
$hddt_compustat$	0.9224	0.9244	0.8915	0.9294	0.9290	0.9331	0.9345	0.9336	0.9320
$hddt_covtype$	0.9949	0.9948	0.9929	0.9948	0.9948	0.9963	0.9960	0.9962	0.9959
$hddt_credit-g$	0.7593	0.7527	0.7468	0.7615	0.7607	0.7348	0.7245	0.7152	0.7546
$hddt_{-}estate$	0.5812	0.5803	0.6388	0.5904	0.6092	0.6158	0.6087	0.5916	0.6138
hddt_german-numer	0.7575	0.7650	0.7523	0.7662	0.7730	0.7583	0.7607	0.7514	0.7626
hddt_heart-v	0.6480	0.6476	0.6708	0.6624	0.6650	0.6771	0.6705	0.6697	0.7056
hddt_hypo	0.9899	0.9900	0.9902	0.9905	0.9894	0.9900	0.9899	0.9903	0.9925
$hddt_{ism}$	0.8672	0.8742	0.9382	0.8867	0.8966	0.8915	0.9043	0.9107	0.9130
hddt_letter	0.9999	0.9999	0.9998	0.9999	0.9999	0.9999	0.9999	0.9999	0.9999
$hddt_{oil}$	0.9212	0.8962	0.9135	0.9144	0.9063	0.9179	0.9088	0.9125	0.9281
$hddt_optdigits$	1.0000	0.9999	0.9999	0.9997	0.9997	0.9999	0.9999	0.9999	0.9999
hddt_page	0.9870	0.9880	0.9908	0.9902	0.9897	0.9915	0.9913	0.9909	0.9911
hddt_pendigits	0.9997	0.9997	0.9999	0.9997	0.9997	0.9999	0.9999	0.9999	1.0000
hddt_phoneme	0.9428	0.9434	0.9449	0.9437	0.9436	0.9461	0.9505	0.9494	0.9502
hddt_PhosS	0.7211	0.7204	0.7641	0.7345	0.7467	0.7299	0.7331	0.7324	0.7276
hddt_satimage	0.9581	0.9571	0.9528	0.9574	0.9577	0.9596	0.9607	0.9599	0.9620
hddt_segment	0.9974	0.9999	0.9998	0.9973	0.9997	0.9998	0.9999	0.9999	0.9999
keel_abalone19	0.6609	0.6934	0.7682	0.6741	0.6938	0.7035	0.7195	0.7255	0.7154
keel_abalone9-18	0.8070	0.8089	0.7802	0.8149	0.8091	0.8089	0.8088	0.8059	0.8070
keel_cleveland-0_vs_4	0.8840	0.9526	0.9503	0.8836	0.9642	0.9448	0.9385	0.9524	0.9572
keel_ecoli-0-1-3-7_vs_2-6	0.8624	0.9067	0.9224	0.8816	0.9121	0.9220	0.9128	0.9100	0.9204
keel_ecoli-0-1-4-6_vs_5	0.9497	0.9856	0.9868	0.9508	0.9848	0.9841	0.9862	0.9851	0.9892
keel_ecoli-0-1-4-7_vs_2-3	0.9199	0.9259	0.9220	0.9081	0.9280	0.9334	0.9241	0.9300	0.9325
keel_ecoli-0-1-4-7_vs_5-6	0.9282	0.9726	0.9630	0.9266	0.9714	0.9630	0.9659	0.9675	0.9668
keel_ecoli-0-1_vs_2-3-5	0.9406	0.9400	0.9411	0.9416	0.9363	0.9312	0.9389	0.9423	0.9495
keel_ecoli-0-1_vs_5	0.9312	0.9820	0.9820	0.9318	0.9809	0.9760	0.9748	0.9755	0.9853
keel_ecoli-0-2-3-4_vs_5	0.9183	0.9726	0.9819	0.9195	0.9732	0.9715	0.9787	0.9804	0.9833
keel_ecoli-0-2-6-7_vs_3-5	0.9202	0.9309	0.9049	0.9248	0.9280	0.9305	0.9320	0.9351	0.9305
keel_ecoli-0-3-4-6_vs_5	0.9431	0.9626	0.9678	0.9409	0.9647	0.9762	0.9781	0.9772	0.9789
keel_ecoli-0-3-4-7_vs_5-6 keel_ecoli-0-3-4_vs_5	0.9448	0.9607	0.9589	0.9435	0.9639	$0.9558 \\ 0.9729$	0.9578	0.9552	0.9622
	0.9574	0.9746	0.9802	0.9556	0.9679	0.9729	0.9761	0.9772	0.9815
keel_ecoli-0-4-6_vs_5	0.9415	0.9809	0.9769	0.9481	0.9806		0.9790	0.9712	0.9840
keel_ecoli-0-6-7_vs_3-5	0.8781	0.9203	0.8985	0.8850	0.9251 0.9614	0.9033	$0.9102 \\ 0.9620$	$0.9150 \\ 0.9633$	0.9237
keel_ecoli-0-6-7_vs_5 keel_ecoli-0_vs_1	0.9288 0.9823	0.9569 0.9771	0.9582 0.9889	0.9347 0.9827	0.9614 0.9790	0.9587 0.9881	0.9888	0.9859	0.9612 0.9909
keel_ecoli1	0.9310	0.9332	0.9498	0.9383	0.9790 0.9375	0.9409	0.9390	0.9639 0.9437	0.9456
keel_ecoli2	0.9506	0.9352 0.9653	0.9668	0.9363 0.9491	0.9614	0.9409 0.9538	0.9607	0.9600	0.9430 0.9639
keel_ecoli3	0.9049	0.9053	0.9008	0.9491 0.9230	0.9014 0.9265	0.9338	0.9194	0.9000 0.9210	0.9039
keel_ecoli4	0.9508	0.9768	0.9192 0.9882	0.9511	0.9799	0.9130	0.9194 0.9798	0.9210 0.9810	0.9855
keel_glass-0-1-2-3_vs_4-5	0.9683	0.9695	0.9734	0.9601	0.9684	0.9723	0.9728	0.9705	0.9767
keel_glass-0-1-4-6_vs_2	0.6906	0.7160	0.7255	0.6964	0.7293	0.7279	0.7323	0.5763 0.7561	0.7737
keel_glass-0-1-5_vs_2	0.6097	0.7205	0.7230	0.6312	0.7277	0.7205	0.7323 0.7470	0.7732	0.7489
keel_glass-0-1-6_vs_2	0.7076	0.6740	0.6967	0.7112	0.7068	0.7296	0.7340	0.7693	0.7582
keel_glass-0-1-6_vs_5	0.9781	0.9871	0.9951	0.9814	0.9902	0.9886	0.9876	0.9880	0.9909
keel_glass-0-4_vs_5	0.9940	0.9914	0.9940	0.9940	0.9914	0.9940	0.9940	0.9940	0.9956
keel_glass-0-6_vs_5	0.9745	0.9621	0.9932	0.9737	0.9621	0.9886	0.9912	0.9915	0.9907
keel_glass0	0.8742	0.8777	0.8890	0.8796	0.8821	0.8661	0.8646	0.8743	0.8833
keel_glass1	0.8283	0.8467	0.8470	0.8311	0.8448	0.8440	0.8460	0.8399	0.8592
keel_glass2	0.6928	0.7078	0.7470	0.7252	0.7374	0.7730	0.7910	0.8155	0.7502
keel_glass4	0.8673	0.9568	0.9147	0.8760	0.9703	0.9436	0.9435	0.9463	0.9628
keel_glass5	0.9714	0.9840	0.9931	0.9714	0.9850	0.9737	0.9748	0.9806	0.9864
keel_glass6	0.9637	0.9654	0.9573	0.9618	0.9617	0.9551	0.9548	0.9541	0.9565
keel_haberman	0.6390	0.6426	0.6989	0.6390	0.6486	0.6821	0.6832	0.6824	0.6735
keel_iris0	0.9820	0.9800	0.9820	0.9820	0.9800	0.9820	0.9820	0.9820	1.0000
keel_led7digit-0-2-4-5-6-	0.9578	0.9546	0.9590	0.9619	0.9589	0.9564	0.9540	0.9610	0.9653
keel_new-thyroid1	0.9692	0.9944	0.9963	0.9688	0.9939	0.9961	0.9970	0.9971	0.9971
keel_new-thyroid2	0.9734	0.9960	0.9974	0.9734	0.9954	0.9970	0.9973	0.9978	0.9983
$keel_page-blocks-1-3_vs_4$	0.9702	0.9995	0.9996	0.9702	0.9995	0.9986	0.9982	0.9990	0.9998
$keel_page-blocks0$	0.9865	0.9862	0.9903	0.9893	0.9888	0.9903	0.9904	0.9901	0.9904
keel_pima	0.7783	0.7947	0.8006	0.7974	0.8001	0.7965	0.7990	0.7957	0.8018
keel_segment0	0.9950	0.9996	0.9999	0.9948	0.9995	0.9996	0.9999	0.9998	0.9999
keel_shuttle-c0-vs-c4	0.9996	0.9990	1.0000	0.9996	0.9990	1.0000	1.0000	1.0000	1.0000
$keel_shuttle-c2-vs-c4$	0.9427	0.9173	1.0000	0.9427	0.9173	1.0000	1.0000	1.0000	1.0000
keel_vehicle0	0.9899	0.9914	0.9959	0.9886	0.9891	0.9933	0.9930	0.9915	0.9958
keel_vehicle1	0.8438	0.8427	0.8523	0.8516	0.8479	0.8494	0.8519	0.8450	0.8511
keel_vehicle2	0.9890	0.9944	0.9972	0.9889	0.9944	0.9969	0.9964	0.9951	0.9981
keel_vehicle3	0.8388	0.8404	0.8462	0.8511	0.8441	0.8423	0.8451	0.8410	0.8458
keel_vowel0	0.9849	0.9988	0.9993	0.9873	0.9984	0.9988	0.9989	0.9990	0.9997
keel_wisconsin	0.9858	0.9869	0.9918	0.9858	0.9863	0.9930	0.9925	0.9920	0.9931
keel_yeast-0-2-5-6_vs_3-7	0.8305	0.8464	0.8477	0.8426	0.8484	0.8418	0.8402	0.8346	0.8427
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Table 7: AUC for ensembles in the Boosting Family.

Dataset	AdaM1W	AdaM1S	RUSB	MultiW	MultiS	SB100	SB200	SB500	RB-B
keel_yeast-0-2-5-7-9_vs_3	0.9454	0.9435	0.9469	0.9397	0.9463	0.9463	0.9454	0.9447	0.9436
$keel_yeast-0-3-5-9_vs_7-8$	0.7657	0.7578	0.7664	0.7727	0.7646	0.7599	0.7514	0.7558	0.7565
$keel_yeast-0-5-6-7-9_vs_4$	0.8741	0.8809	0.8934	0.8791	0.8912	0.8788	0.8877	0.8830	0.8795
$keel_yeast-1-2-8-9_vs_7$	0.7419	0.7405	0.7785	0.7596	0.7502	0.7674	0.7626	0.7600	0.7477
$keel_yeast-1-4-5-8_vs_7$	0.6720	0.6670	0.6809	0.6897	0.7032	0.6907	0.6854	0.6756	0.6655
keel_yeast-1_vs_7	0.7946	0.8048	0.8179	0.8157	0.8121	0.7985	0.7998	0.7943	0.8059
keel_yeast-2_vs_4	0.9619	0.9631	0.9695	0.9665	0.9718	0.9688	0.9696	0.9737	0.9705
keel_yeast-2_vs_8	0.8206	0.8668	0.8099	0.8417	0.8518	0.8268	0.8257	0.8225	0.8216
keel_yeast1	0.7564	0.7644	0.7873	0.7702	0.7778	0.7769	0.7766	0.7715	0.7768
keel_yeast3	0.9603	0.9616	0.9671	0.9673	0.9661	0.9641	0.9650	0.9647	0.9641
keel_yeast4	0.8974	0.9034	0.9242	0.9209	0.9172	0.9107	0.9150	0.9203	0.9148
keel_yeast5	0.9805	0.9849	0.9878	0.9826	0.9878	0.9843	0.9840	0.9848	0.9766
keel_yeast6	0.8852	0.8970	0.9303	0.8882	0.8989	0.8851	0.9023	0.9025	0.8965

Table 8: F-Measure for ensembles in the Boosting family.

Dataset	AdaM1W	AdaM1S	RUSB	MultiW	MultiS	SB100	SB200	SB500	RB-B
hddt_boundary	0.0127	0.0063	0.1378	0.0095	0.0031	0.0668	0.0649	0.0643	0.0388
hddt_breast-y	0.4122	0.3823	0.4605	0.3944	0.3944	0.4068	0.3920	0.4029	0.4023
$hddt_{cam}$	0.0928	0.0980	0.2463	0.0700	0.0973	0.1523	0.1527	0.1639	0.1356
hddt_compustat	0.2309	0.2535	0.2966	0.1772	0.2121	0.3074	0.3778	0.4576	0.4538
hddt_covtype	0.8996	0.8994	0.8095	0.8951	0.8974	0.9027	0.9041	0.9037	0.9055
hddt_credit-g	0.5020	0.5121	0.5126	0.4869	0.5156	0.5221	0.5173	0.5227	0.5173
$hddt_{estate}$	0.0906	0.1171	0.2679	0.0643	0.0886	0.0400	0.1274	0.1928	0.0813
$hddt_{german-numer}$	0.5233	0.5370	0.5358	0.5198	0.5486	0.5185	0.5261	0.5270	0.5334
hddt_heart-v	0.3638	0.3755	0.4137	0.3681	0.3475	0.4261	0.4201	0.4073	0.4107
hddt_hypo	0.8937	0.8985	0.7998	0.9014	0.8981	0.8883	0.8933	0.8846	0.8863
hddt_ism	0.6404	0.6264	0.4463	0.6623	0.6538	0.6615	0.6702	0.6829	0.6804
$hddt_letter$	0.9738	0.9762	0.9669	0.9726	0.9732	0.9780	0.9778	0.9767	0.9768
hddt_oil	0.4427	0.4771	0.4303	0.4463	0.4657	0.4372	0.4222	0.4650	0.5504
hddt_optdigits	0.9929	0.9924	0.9928	0.9898	0.9900	0.9920	0.9898	0.9896	0.9925
hddt_page	0.8686	0.8594	0.8506	0.8801	0.8790	0.8733	0.8698	0.8589	0.8792
hddt_pendigits	0.9877	0.9890	0.9866	0.9849	0.9862	0.9862	0.9848	0.9851	0.9892
hddt_phoneme	0.8110	0.8156	0.8040	0.8163	0.8163	0.8086	0.8144	0.8073	0.8149
hddt_PhosS	0.0013	0.0019	0.2476	0.0020	0.0198	0.0482	0.0516	0.0482	0.0045
hddt_satimage	0.6690	0.6779	0.6330	0.6604	0.6653	0.6838	0.6804	0.6823	0.6916
hddt_segment	0.9834	0.9936	0.9909	0.9831	0.9914	0.9854	0.9860	0.9873	0.9912
keel_abalone19	0.0118	0.0000	0.0429	0.0000	0.0000	0.0223	0.0105	0.0274	0.0284
keel_abalone9-18	0.3047	0.3129	0.2869	0.2835	0.3312	0.3604	0.3648	0.3677	0.3769
keel_cleveland-0_vs_4	0.4372	0.5098	0.5863	0.4144	0.4795	0.4493	0.4161	0.4574	0.5681
keel_ecoli-0-1-3-7_vs_2-6	0.4755	0.4319	0.3508	0.4450	0.4438	0.2744	0.3338	0.3805	0.5110
$keel_ecoli-0-1-4-6_vs_5$	0.7474	0.7952	0.7613	0.7452	0.8090	0.7836	0.7748	0.7794	0.8031
keel_ecoli-0-1-4-7_vs_2-3	0.6918	0.7117	0.6932	0.6904	0.7291	0.6666	0.6622	0.6691	0.6978
keel_ecoli-0-1-4-7_vs_5-6	0.6764	0.7689	0.7341	0.6623	0.7741	0.6984	0.7154	0.7539	0.8016
keel_ecoli-0-1_vs_2-3-5	0.7350	0.7495	0.7156	0.7237	0.6885	0.6932	0.6938	0.7116	0.7508
keel_ecoli-0-1_vs_5	0.7453	0.7925	0.7749	0.7376	0.7760	0.7300	0.7438	0.7684	0.7602
$keel_ecoli-0-2-3-4_vs_5$	0.7645	0.7964	0.7503	0.7699	0.7833	0.7323	0.7536	0.7555	0.7529
$keel_ecoli-0-2-6-7_vs_3-5$	0.7459	0.7684	0.7126	0.7451	0.7604	0.6949	0.7261	0.7280	0.7589
keel_ecoli-0-3-4-6_vs_5	0.7892	0.7954	0.7388	0.7600	0.8082	0.7072	0.7190	0.7611	0.7791
keel_ecoli-0-3-4-7_vs_5-6	0.7844	0.8207	0.7618	0.7716	0.8189	0.7710	0.7777	0.7767	0.7983
keel_ecoli-0-3-4_vs_5	0.7384	0.8057	0.7917	0.7669	0.8159	0.7471	0.7534	0.7467	0.7433
keel_ecoli-0-4-6_vs_5	0.7234	0.7803	0.7193	0.7215	0.7700	0.7258	0.7168	0.6972	0.7453
keel_ecoli-0-6-7_vs_3-5	0.7244	0.7328	0.6930	0.7143	0.7153	0.6936	0.6857	0.6649	0.6996
keel_ecoli-0-6-7_vs_5	0.7992	0.8108	0.7607	0.7987	0.8168	0.7822	0.7927	0.7628	0.8079
keel_ecoli-0_vs_1	0.9766	0.9605	0.9691	0.9741	0.9580	0.9631	0.9631	0.9654	0.9691
keel_ecoli1	0.7492	0.7670	0.7623	0.7555	0.7563	0.7495	0.7468	0.7531	0.7650
keel_ecoli2	0.8174	0.8152	0.8241	0.8175	0.8218	0.7811	0.7992	0.8063	0.8128
keel_ecoli3	0.5242	0.5178	0.5969	0.5310	0.5316	0.5441	0.5214	0.5316	0.5567
keel_ecoli4	0.7768	0.7712	0.7820	0.7353	0.7665	0.6729	0.7156	0.7275	0.7911
keel_glass-0-1-2-3_vs_4-5	0.8547	0.8498	0.8419	0.8555	0.8529	0.8309	0.8385	0.8494	0.8363
keel_glass-0-1-4-6_vs_2	0.2199	0.2357	0.2466	0.2172	0.1978	0.2440	0.2476	0.2776	0.2646
keel_glass-0-1-5_vs_2	0.1302	0.1742	0.2635	0.1217	0.1958	0.2812	0.2373	0.3045	0.2688
keel_glass-0-1-6_vs_2	0.1727	0.1848	0.2203	0.1551	0.1997	0.2078	0.2113	0.2667	0.1841
keel_glass-0-1-6_vs_5	0.6681	0.7167	0.8338	0.6919	0.6412	0.6099	0.7027	0.7160	0.6867
keel_glass-0-4_vs_5	0.9505	0.8041	0.9251	0.9505	0.7898	0.9394	0.9394	0.9394	0.8519
keel_glass-0-6_vs_5	0.8413	0.5966	0.8355	0.8163	0.6423	0.7322	0.7322	0.7988	0.7988
keel_glass0	0.7056	0.7227	0.7334	0.7071	0.7220	0.6892	0.6863	0.7099	0.7172
keel_glass1	0.6778	0.6921	0.6909	0.6719	0.6833	0.6936	0.6872	0.6841	0.6997
keel_glass2	0.1797	0.1829	0.2404	0.1530	0.1541	0.2220	0.2148	0.2618	0.2469
keel_glass4	0.5206	0.5424	0.5888	0.5145	0.5678	0.4967	0.5066	0.4811	0.5128
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Table 8: F-Measure for ensembles in the Boosting family.

Dataset	AdaM1W	AdaM1S	RUSB	MultiW	MultiS	SB100	SB200	SB500	RB-B
keel_glass5	0.8210	0.6293	0.8034	0.8210	0.6029	0.6325	0.6683	0.6565	0.6602
keel_glass6	0.8433	0.8694	0.8658	0.8404	0.8675	0.8171	0.8237	0.8108	0.8551
keel_haberman	0.2752	0.3656	0.4829	0.2752	0.3719	0.4632	0.4644	0.4719	0.3409
keel_iris0	0.9813	0.9772	0.9813	0.9813	0.9772	0.9813	0.9813	0.9813	0.9813
keel_led7digit-0-2-4-5-6-	0.7695	0.7642	0.7054	0.7724	0.7487	0.7620	0.7562	0.7754	0.7667
keel_new-thyroid1	0.8917	0.9409	0.9211	0.8886	0.9325	0.9037	0.9175	0.9133	0.9270
keel_new-thyroid2	0.8949	0.9466	0.9390	0.8949	0.9305	0.9233	0.9267	0.9392	0.9455
keel_page-blocks-1-3_vs_4	0.9115	0.9441	0.9337	0.9115	0.9515	0.8980	0.9135	0.9355	0.9610
keel_page-blocks0	0.8532	0.8602	0.8493	0.8709	0.8695	0.8651	0.8608	0.8512	0.8692
keel_pima	0.5922	0.6123	0.6327	0.6209	0.6259	0.6357	0.6437	0.6525	0.6225
keel_segment0	0.9852	0.9921	0.9894	0.9842	0.9884	0.9825	0.9798	0.9831	0.9881
keel_shuttle-c0-vs-c4	0.9943	0.9865	1.0000	0.9943	0.9865	1.0000	1.0000	1.0000	1.0000
keel_shuttle-c2-vs-c4	0.7005	0.5421	0.7900	0.7005	0.5421	1.0000	1.0000	1.0000	1.0000
keel_vehicle0	0.9389	0.9366	0.9299	0.9242	0.9292	0.9172	0.9147	0.9034	0.9335
keel_vehicle1	0.5419	0.5311	0.5910	0.5331	0.5327	0.5813	0.5982	0.6125	0.5608
keel_vehicle2	0.9495	0.9656	0.9645	0.9483	0.9679	0.9602	0.9572	0.9539	0.9665
keel_vehicle3	0.5339	0.5220	0.5807	0.5236	0.5110	0.5424	0.5673	0.5881	0.5442
keel_vowel0	0.9306	0.9679	0.9592	0.9334	0.9581	0.9565	0.9592	0.9546	0.9697
keel_wisconsin	0.9500	0.9541	0.9513	0.9525	0.9495	0.9444	0.9479	0.9477	0.9526
$keel_yeast-0-2-5-6_vs_3-7$	0.5633	0.5771	0.5487	0.5650	0.5667	0.5689	0.5788	0.5645	0.5896
$keel_yeast-0-2-5-7-9_vs_3$	0.8053	0.8029	0.7736	0.8012	0.8101	0.7985	0.7969	0.7827	0.8049
$keel_yeast-0-3-5-9_vs_7-8$	0.3257	0.3325	0.4118	0.3166	0.3113	0.3418	0.3461	0.3540	0.3635
$keel_yeast-0-5-6-7-9_vs_4$	0.4785	0.4743	0.5301	0.4773	0.4748	0.4624	0.4716	0.4334	0.4876
$keel_yeast-1-2-8-9_vs_7$	0.1875	0.1727	0.2187	0.2064	0.1815	0.2471	0.2620	0.2573	0.2663
$keel_yeast-1-4-5-8_vs_7$	0.0427	0.0569	0.1860	0.0562	0.0471	0.0512	0.0566	0.1050	0.1135
keel_yeast-1_vs_7	0.3549	0.3442	0.3908	0.3417	0.3258	0.3538	0.3771	0.3336	0.3824
keel_yeast-2_vs_4	0.7320	0.7376	0.7221	0.7546	0.7582	0.7300	0.7568	0.7489	0.7514
keel_yeast-2_vs_8	0.5731	0.5864	0.5227	0.5957	0.5936	0.5536	0.5360	0.5470	0.5942
keel_yeast1	0.5151	0.5277	0.5910	0.5259	0.5332	0.5616	0.5694	0.5756	0.5309
keel_yeast3	0.7458	0.7478	0.7734	0.7580	0.7531	0.7572	0.7678	0.7624	0.7649
keel_yeast4	0.2417	0.2826	0.3485	0.2736	0.2877	0.3069	0.3396	0.3731	0.3790
keel_yeast5	0.6706	0.6845	0.5870	0.6752	0.7018	0.6871	0.7042	0.7100	0.6899
keel_yeast6	0.4250	0.4478	0.3576	0.4296	0.4236	0.4373	0.4625	0.4635	0.4997

Table 9: Geometric Mean for ensembles in the Boosting family.

Dataset	AdaM1W	AdaM1S	RUSB	MultiW	MultiS	SB100	SB200	SB500	RB-B
hddt_boundary	0.0509	0.0255	0.5805	0.0382	0.0127	0.1982	0.1948	0.1701	0.1320
hddt_breast-y	0.5519	0.5279	0.5959	0.5360	0.5358	0.5510	0.5377	0.5446	0.5454
$hddt_{-}cam$	0.2243	0.2307	0.7201	0.1906	0.2286	0.3108	0.3179	0.3627	0.2916
$hddt_compustat$	0.3637	0.3835	0.7773	0.3130	0.3468	0.4340	0.4985	0.6024	0.5965
$hddt_covtype$	0.9293	0.9318	0.9607	0.9253	0.9302	0.9378	0.9413	0.9457	0.9439
hddt_credit-g	0.6126	0.6239	0.6328	0.6001	0.6269	0.6430	0.6409	0.6467	0.6334
$hddt_{estate}$	0.2350	0.2837	0.5980	0.1901	0.2326	0.1460	0.2856	0.4131	0.2176
hddt_german-numer	0.6336	0.6446	0.6528	0.6284	0.6542	0.6328	0.6397	0.6445	0.6438
hddt_heart-v	0.5251	0.5337	0.5796	0.5262	0.5066	0.5837	0.5788	0.5691	0.5617
hddt_hypo	0.9342	0.9386	0.9636	0.9414	0.9372	0.9440	0.9488	0.9451	0.9432
$hddt_{ism}$	0.7381	0.7319	0.8929	0.7349	0.7335	0.7694	0.7963	0.8313	0.8308
$hddt_letter$	0.9749	0.9773	0.9904	0.9739	0.9747	0.9788	0.9792	0.9785	0.9779
hddt_oil	0.5589	0.5962	0.7755	0.5641	0.5843	0.5773	0.5714	0.6145	0.6679
hddt_optdigits	0.9933	0.9934	0.9952	0.9911	0.9911	0.9927	0.9905	0.9905	0.9937
hddt_page	0.9171	0.9135	0.9541	0.9230	0.9242	0.9321	0.9367	0.9391	0.9340
hddt_pendigits	0.9902	0.9915	0.9937	0.9870	0.9888	0.9886	0.9879	0.9882	0.9921
$hddt_phoneme$	0.8609	0.8647	0.8667	0.8651	0.8655	0.8680	0.8763	0.8776	0.8675
$hddt_PhosS$	0.0081	0.0099	0.6565	0.0171	0.0913	0.1564	0.1617	0.1550	0.0300
$hddt_satimage$	0.7495	0.7605	0.8596	0.7451	0.7521	0.7791	0.7857	0.8054	0.7929
hddt_segment	0.9899	0.9946	0.9944	0.9896	0.9927	0.9905	0.9911	0.9933	0.9932
keel_abalone19	0.0250	0.0000	0.6201	0.0000	0.0000	0.0500	0.0250	0.0749	0.1099
keel_abalone9-18	0.4542	0.4719	0.6382	0.4438	0.4822	0.5377	0.5559	0.5872	0.5716
$keel_cleveland-0_vs_4$	0.5506	0.6095	0.7473	0.5247	0.5879	0.5783	0.5606	0.5883	0.6754
$keel_ecoli-0-1-3-7_vs_2-6$	0.6055	0.6075	0.7268	0.5558	0.5791	0.4558	0.5261	0.5979	0.6880
$keel_ecoli-0-1-4-6_vs_5$	0.8454	0.8548	0.8566	0.8400	0.8668	0.8782	0.8825	0.8935	0.8912
$keel_ecoli-0-1-4-7_vs_2-3$	0.7936	0.8094	0.8477	0.7872	0.8171	0.7886	0.7930	0.8134	0.8243
$keel_ecoli-0-1-4-7_vs_5-6$	0.7621	0.8239	0.8412	0.7474	0.8318	0.7984	0.8179	0.8504	0.8635
$keel_ecoli-0-1_vs_2-3-5$	0.8353	0.8341	0.8490	0.8257	0.7882	0.8312	0.8407	0.8545	0.8544
$keel_ecoli-0-1_vs_5$	0.8276	0.8683	0.8669	0.8211	0.8468	0.8410	0.8443	0.8668	0.8506
$keel_ecoli-0-2-3-4_vs_5$	0.8765	0.8806	0.8841	0.8687	0.8683	0.8631	0.8751	0.8750	0.8746
$keel_ecoli-0-2-6-7_vs_3-5$	0.8350	0.8470	0.8355	0.8338	0.8505	0.8215	0.8457	0.8507	0.8553
$keel_ecoli-0-3-4-6_vs_5$	0.8639	0.8848	0.8549	0.8502	0.8778	0.8531	0.8590	0.8899	0.8841
$keel_ecoli-0-3-4-7_vs_5-6$	0.8538	0.8775	0.8745	0.8360	0.8738	0.8587	0.8645	0.8681	0.8706
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Table 9: Geometric Mean for ensembles in the Boosting family.

Dataset	AdaM1W	AdaM1S	RUSB	MultiW	MultiS	SB100	SB200	SB500	RB-B
keel_ecoli-0-3-4_vs_5	0.8269	0.8819	0.8716	0.8315	0.8778	0.8391	0.8447	0.8523	0.8495
keel_ecoli-0-4-6_vs_5	0.8154	0.8475	0.8272	0.8102	0.8396	0.8332	0.8319	0.8248	0.8254
$keel_ecoli-0-6-7_vs_3-5$	0.7948	0.8136	0.8279	0.7888	0.8066	0.7906	0.7901	0.7923	0.8059
keel_ecoli-0-6-7_vs_5	0.8843	0.8909	0.8844	0.8746	0.8966	0.8679	0.8838	0.8642	0.8953
keel_ecoli-0_vs_1	0.9813	0.9723	0.9771	0.9799	0.9709	0.9736	0.9736	0.9750	0.9771
keel_ecoli1	0.8391	0.8491	0.8548	0.8364	0.8408	0.8391	0.8414	0.8552	0.8538
keel_ecoli2	0.8648	0.8616	0.8897	0.8615	0.8690	0.8444	0.8592	0.8761	0.8694
keel_ecoli3	0.6684	0.6656	0.7973	0.6716	0.6730	0.7110	0.6912	0.7138	0.7162
keel_ecoli4	0.8533	0.8579	0.9057	0.8213	0.8571	0.7899	0.8296	0.8463	0.8860
keel_glass-0-1-2-3_vs_4-5	0.8972	0.8943	0.8918	0.8964	0.8977	0.8823	0.8900	0.8967	0.8867
keel_glass-0-1-4-6_vs_2	0.3327	0.3581	0.4346	0.3477	0.3009	0.3959	0.4151	0.4698	0.4106
keel_glass-0-1-5_vs_2	0.2266	0.2809	0.4764	0.1985	0.2959	0.4548	0.4196	0.5173	0.4377
keel_glass-0-1-6_vs_2	0.3287	0.2934	0.4080	0.2851	0.3461	0.3779	0.3816	0.4467	0.3315
keel_glass-0-1-6_vs_5	0.7905	0.8163	0.9429	0.8090	0.7703	0.7613	0.8519	0.8603	0.8161
keel_glass-0-4_vs_5	0.9939	0.8717	0.9700	0.9939	0.8583	0.9834	0.9834	0.9834	0.9185
keel_glass-0-6_vs_5	0.9001	0.6740	0.9074	0.8775	0.7106	0.8166	0.8166	0.8719	0.8719
keel_glass0	0.7763	0.7905	0.8033	0.7774	0.7904	0.7660	0.7656	0.7858	0.7868
keel_glass1	0.7407	0.7555	0.7545	0.7364	0.7463	0.7571	0.7535	0.7495	0.7602
keel_glass2	0.3126	0.2945	0.4679	0.2666	0.2482	0.3984	0.3941	0.4499	0.3848
keel_glass4	0.6980	0.6657	0.7681	0.6874	0.6829	0.6626	0.6741	0.6505	0.6551
keel_glass5	0.9477	0.7416	0.9347	0.9477	0.6907	0.7756	0.8048	0.7769	0.7761
keel_glass6	0.9022	0.9102	0.9129	0.9017	0.9130	0.8949	0.8991	0.8939	0.9109
keel_haberman	0.3901	0.5167	0.6365	0.3901	0.5209	0.6129	0.6193	0.6265	0.4957
keel_iris0	0.9816	0.9776	0.9816	0.9816	0.9776	0.9816	0.9816	0.9816	0.9816
keel_led7digit-0-2-4-5-6-	0.8717	0.8706	0.8887	0.8747	0.8643	0.8682	0.8673	0.8827	0.8714
keel_new-thyroid1	0.9347	0.9556	0.9464	0.9318	0.9517	0.9424	0.9528	0.9515	0.9546
keel_new-thyroid2	0.9272	0.9685	0.9577	0.9272	0.9536	0.9451	0.9482	0.9600	0.9637
keel_page-blocks-1-3_vs_4	0.9586	0.9858	0.9918	0.9586	0.9898	0.9454	0.9513	0.9602	0.9837
keel_page-blocks0	0.9100	0.9127	0.9513	0.9175	0.9189	0.9253	0.9300	0.9333	0.9302
keel_pima	0.6792	0.6948	0.7132	0.7011	0.7058	0.7157	0.7221	0.7269	0.7025
keel_segment0	0.9893	0.9946	0.9941	0.9879	0.9922	0.9909	0.9892	0.9910	0.9919
keel_shuttle-c0-vs-c4	0.9996	0.9990	1.0000	0.9996	0.9990	1.0000	1.0000	1.0000	1.0000
keel_shuttle-c2-vs-c4	0.7633	0.5997	0.8027	0.7633	0.5997	1.0000	1.0000	1.0000	1.0000
keel_vehicle0	0.9612	0.9585	0.9626	0.9516	0.9543	0.9505	0.9503	0.9440	0.9588
keel_vehicle1	0.6640	0.6551	0.3020 0.7175	0.6548	0.6557	0.7058	0.7256	0.7440	0.6830
keel_vehicle2	0.9679	0.9769	0.7173	0.9655	0.0337	0.7038	0.7230	0.9706	0.0330 0.9772
keel_vehicle3	0.6533	0.6434	0.7061	0.6419	0.6344	0.6729	0.6977	0.7244	0.6647
keel_vowel0	0.9492	0.9753	0.7001	0.0413	0.0344 0.9679	0.0723	0.0311	0.7244	0.9817
keel_wisconsin	0.9620	0.9650	0.9636	0.9430	0.9615	0.9571	0.9601	0.9609	0.9646
keel_yeast-0-2-5-6_vs_3-7	0.6767	0.6894	0.9030 0.7752	0.9041 0.6719	0.6807	0.9371 0.7004	0.7126	0.9009 0.7205	0.9040 0.7195
keel_yeast-0-2-5-7-9_vs_3	0.8731	0.8736	0.7732	0.8705	0.8755	0.7004 0.8741	0.7120 0.8759	0.7203 0.8732	0.7193
keel_yeast-0-2-5-7-9_vs_5 keel_yeast-0-3-5-9_vs_7-8	0.4743	0.4856	0.6736	0.4639	0.8755 0.4597	0.5038	0.5219	0.5481	0.5319
keel_yeast-0-5-6-7-9_vs_4	0.6086	0.4830		0.4039	0.4397 0.6102	0.6303		0.6334	
			0.7502				0.6456		0.6452
keel_yeast-1-2-8-9_vs_7	0.3246	0.2791	0.6528	0.3239	0.3015	0.3833 0.1134	0.4085	$0.4268 \\ 0.2259$	$0.4452 \\ 0.2365$
keel_yeast-1-4-5-8_vs_7	0.0878	0.1138	0.6008	0.0987	0.0881		0.1238		
keel_yeast-1_vs_7	0.5068	0.5044	0.7202	0.4914	0.4755	0.5388	0.5733	0.5625	0.5663
keel_yeast-2_vs_4	0.8268	0.8349	0.8703	0.8430	0.8494	0.8368	0.8651	0.8680	0.8547
keel_yeast-2_vs_8	0.6786	0.6979	0.7273	0.6908	0.6971	0.7003	0.6993	0.7208	0.7238
keel_yeast1	0.6341	0.6432	0.7101	0.6387	0.6473	0.6799	0.6902	0.6987	0.6461
keel_yeast3	0.8398	0.8418	0.9094	0.8480	0.8460	0.8631	0.8688	0.8742	0.8603
keel_yeast4	0.3964	0.4353	0.8210	0.4293	0.4439	0.4814	0.5145	0.5854	0.5807
keel_yeast5	0.7830	0.8034	0.9376	0.7801	0.8075	0.8200	0.8365	0.8598	0.8438
keel_yeast6	0.5800	0.5951	0.8352	0.5779	0.5766	0.5981	0.6307	0.6486	0.6878

Table 10: Accuracy for ensembles in the Data-processing family.

Dataset	ESM100	ESM200	ESM500	ESM	ERUS	E-RB	EopB	EopS	EopU	ERUSR	EPart
hddt_boundary	91.77	92.19	92.68	93.15	59.51	94.43	93.37	92.53	87.87	59.59	59.94
hddt_breast-y	61.05	61.33	59.93	62.03	61.68	64.27	62.52	64.06	64.48	59.51	61.26
$hddt_cam$	90.35	90.38	90.44	90.46	74.72	94.12	87.58	90.92	80.99	74.29	74.91
hddt_compustat	96.36	96.21	95.35	91.97	75.34	89.73	92.61	93.08	93.94	75.08	75.14
$hddt_covtype$	98.10	98.16	98.04	97.92	93.96	97.67	97.91	97.92	97.79	93.91	93.94
hddt_credit-g	67.70	67.24	66.72	67.58	65.46	71.30	68.66	68.34	68.68	63.96	65.62
$hddt_{estate}$	86.78	84.91	76.26	72.58	62.92	72.27	66.49	84.59	76.92	62.82	62.98
hddt_german-numer	70.82	69.96	69.08	71.14	68.96	72.46	70.46	71.10	70.32	66.30	68.40
hddt_heart-v	74.00	71.00	68.80	70.90	62.10	70.60	67.10	71.60	68.70	59.80	62.00
hddt_hypo	99.01	98.90	98.83	98.37	96.41	98.64	98.40	98.77	98.71	96.35	96.36
$hddt_{ism}$	98.57	98.45	98.26	97.03	91.41	96.74	96.23	98.01	97.89	91.26	91.47
$hddt_letter$	99.57	99.61	99.57	99.44	97.79	99.66	99.51	99.54	99.45	97.75	97.77
hddt_oil	95.80	95.94	95.65	94.26	78.10	93.34	91.12	95.16	89.80	78.25	78.42
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Table 10: Accuracy for ensembles in the Data-processing family.

Dataset	ESM100	ESM200	ESM500	ESM	ERUS	E-RB	EopB	EopS	EopU	ERUSR	EPart
hddt_optdigits	99.49	99.51	99.44	99.44	98.86	99.59	99.46	99.46	99.44	98.77	98.90
hddt_page	97.35	97.24	96.66	96.41	94.46	96.56	96.75	96.82	97.23	94.27	94.46
hddt_pendigits	99.19	99.31	99.26	99.25	98.54	99.43	99.27	99.21	98.87	98.43	98.50
$hddt_phoneme$	85.84	85.65	84.04	86.00	83.01	85.74	85.98	85.93	84.50	82.89	82.85
hddt_PhosS	94.13	93.85	93.22	92.68	65.35	93.95	80.96	93.32	73.14	64.65	65.31
$hddt_satimage$	93.43	93.25	92.53	92.01	84.96	91.24	91.31	92.32	90.62	84.49	84.83
hddt_segment	99.30	99.20	99.18	99.18	98.16	99.21	98.85	99.30	99.18	98.03	98.15
keel_abalone19	99.18	99.10	98.60	95.34	57.18	93.38	82.32	96.05	86.08	57.77	57.82
keel_abalone9-18	93.30	93.30	91.65	88.76	72.80	87.80	85.89	91.76	83.25	72.28	72.97
keel_cleveland-0_vs_4 keel_ecoli-0-1-3-7_vs_2-6	94.12 98.01	93.79 97.72	94.35 97.65	93.11 97.65	$80.68 \\ 72.62$	93.56 98.08	$91.17 \\ 76.89$	93.10 97.58	92.65 90.98	$81.25 \\ 72.54$	82.37 73.47
keel_ecoli-0-1-4-6_vs_5	96.07	96.14	95.71	95.50	87.14	95.29	94.07	95.93	95.50	87.79	88.21
keel_ecoli-0-1-4-7_vs_2-3	94.58	94.82	92.74	92.26	84.70	92.68	93.57	94.40	92.98	84.23	84.76
keel_ecoli-0-1-4-7_vs_5-6	95.48	95.60	95.42	95.18	86.87	95.54	93.25	95.18	93.67	86.08	86.81
$keel_ecoli-0-1_vs_2-3-5$	94.10	93.69	93.69	93.36	85.98	92.46	92.54	93.28	92.13	85.90	86.48
keel_ecoli-0-1_vs_5	95.17	95.00	94.67	94.33	87.42	93.92	90.75	95.00	92.08	87.08	87.25
$keel_ecoli-0-2-3-4_vs_5$	94.06	93.27	93.37	93.27	87.72	91.98	93.27	93.86	93.56	87.13	87.13
$keel_ecoli-0-2-6-7_vs_3-5$	95.80	95.09	94.38	93.75	88.48	93.66	91.52	94.20	95.27	87.95	88.21
$keel_ecoli-0-3-4-6_vs_5$	93.17	93.36	93.96	94.63	85.37	93.37	92.30	92.88	90.94	84.89	85.76
keel_ecoli-0-3-4-7_vs_5-6	95.25	94.86	93.77	93.77	86.30	93.85	92.68	94.16	94.24	86.30	86.14
keel_ecoli-0-3-4_vs_5	94.70	94.50	94.00	93.90	88.20	94.00	93.70	94.10	93.80	87.30	87.90
keel_ecoli-0-4-6_vs_5	94.18	94.38	94.28	93.20	84.52	94.09	93.00	94.08	91.53	84.41	85.10
keel_ecoli-0-6-7_vs_3-5 keel_ecoli-0-6-7_vs_5	94.41 96.18	94.50 96.00	93.87 95.27	93.24 94.82	89.10 90.55	93.06 94.91	92.52 96.09	93.51 95.82	93.87 96.36	89.01 90.27	89.46 90.27
keel_ecoli-0-vs_1	98.45	98.09	97.27	98.45	97.36	98.36	98.45	98.36	97.00	96.45	97.36
keel_ecoli1	89.23	88.51	87.68	88.15	87.50	88.75	88.15	88.93	88.10	87.44	87.62
keel_ecoli2	93.99	93.81	93.04	93.10	86.96	93.33	92.92	93.63	91.37	86.61	87.02
keel_ecoli3	90.77	90.12	90.00	89.52	82.98	89.58	89.29	90.18	89.29	81.73	81.85
keel_ecoli4	96.37	96.19	96.13	95.89	89.82	95.71	96.19	96.31	95.95	89.17	89.17
$keel_glass-0-1-2-3_vs_4-5$	92.24	91.78	91.87	91.96	89.63	91.68	91.87	92.34	91.68	89.63	89.81
$keel_glass-0-1-4-6_vs_2$	89.75	89.17	88.48	87.21	56.29	84.48	74.77	88.19	81.44	57.08	57.85
$keel_glass-0-1-5_vs_2$	88.60	86.98	83.84	81.63	54.53	81.63	67.21	83.72	70.70	51.28	55.00
keel_glass-0-1-6_vs_2	88.44	86.98	84.79	82.71	54.06	81.88	71.56	85.52	80.94	52.92	55.31
keel_glass-0-1-6_vs_5	97.50	97.93	98.15	97.83	89.13	97.28	98.04	97.93	97.07	89.13	89.13
keel_glass-0-4_vs_5	98.91	98.91	98.91	98.91	98.91	98.91	98.91	98.91	98.91	98.91	98.91
keel_glass-0-6_vs_5 keel_glass0	97.96 78.50	97.96 77.85	$97.96 \\ 76.92$	97.96 78.41	84.63 77.20	98.15 79.53	98.33 78.04	$97.96 \\ 77.01$	96.67 77.66	$84.63 \\ 75.70$	84.26 77.29
keel_glass1	74.95	72.43	69.16	73.93	73.93	74.67	75.14	74.21	73.55	72.62	73.93
keel_glass2	89.53	89.35	87.85	85.23	58.04	83.64	70.75	89.53	81.87	57.48	59.53
keel_glass4	92.99	93.27	93.93	92.99	80.37	92.15	91.22	92.80	88.50	81.50	81.78
keel_glass5	98.13	97.48	98.13	97.66	90.19	97.29	97.76	97.66	97.85	90.19	90.19
keel_glass6	94.86	95.05	94.86	94.77	90.65	94.86	95.05	95.05	93.46	90.47	90.84
keel_haberman	69.02	64.12	62.09	64.90	67.52	67.97	63.07	68.10	71.44	66.41	67.91
keel_iris0	98.80	98.80	98.80	98.80	98.80	98.80	98.80	98.80	98.80	98.80	98.80
$keel_led7digit-0-2-4-5-6-$	95.44	95.30	95.62	95.62	87.28	95.35	91.34	95.49	94.00	86.51	86.24
keel_new-thyroid1	96.09	96.19	97.02	96.65	93.02	97.02	95.17	96.00	95.91	93.11	93.21
keel_new-thyroid2	97.12	96.93	97.12	97.21	94.13	96.37	97.03	96.65	96.19	93.20	93.57
keel_page-blocks-1-3_vs_4 keel_page-blocks0	99.24 97.24	99.24 97.17	99.24 96.71	99.24 96.55	86.78 94.48	99.15 96.51	99.28 96.51	99.24 96.80	98.81 97.09	$86.78 \\ 94.42$	86.99 94.49
keel_pima	73.18	71.80	69.84	73.57	72.32	74.35	73.72	74.09	73.15	71.25	72.53
keel_segment0	99.19	99.25	99.12	99.19	97.98	99.09	99.14	99.23	98.87	98.09	98.04
keel_shuttle-c0-vs-c4	100.00	100.00	100.00	100.00	100.00	100.00	99.98	99.98	99.98	100.00	100.00
keel_shuttle-c2-vs-c4	100.00	100.00	100.00	100.00	99.53	100.00	99.23	99.23	99.23	99.22	99.53
keel_vehicle0	93.45	93.36	93.45	93.31	92.62	94.02	93.38	93.17	93.33	92.32	92.79
keel_vehicle1	76.86	76.38	76.15	76.03	74.85	76.22	76.31	76.36	76.55	74.30	74.94
keel_vehicle2	95.63	95.58	95.34	95.53	95.63	96.41	95.93	95.25	95.86	95.15	95.44
keel_vehicle3	76.57	75.70	74.82	75.72	74.04	75.96	76.24	76.71	75.84	73.17	74.04
keel_vowel0	98.22	98.00	98.16	97.73	94.96	97.49	97.61	97.71	97.41	94.88	94.80
keel_wisconsin	95.61	95.52	95.49	95.61	96.19	96.60	95.93	95.40	95.49	96.37	96.16
keel_yeast-0-2-5-6_vs_3-7	92.31	92.11	91.29	89.92	88.84	89.56	89.12	90.48	89.74	88.41	88.96
keel_yeast-0-2-5-7-9_vs_3 keel_yeast-0-3-5-9_vs_7-8	95.48 90.20	95.60 89.05	94.90 86.40	94.14 84.51	92.89 74.62	94.06	93.13 81.11	$94.36 \\ 87.23$	93.53 87.00	$92.65 \\ 73.83$	93.05 74.43
keel_yeast-0-5-6-7-9_vs_4	90.20	89.03 89.92	88.48	86.63	80.64	$83.28 \\ 86.89$	87.31	89.36	89.13	80.38	80.38
keel_yeast-1-2-8-9_vs_7	96.64	96.56	95.25	90.88	69.43	85.80	92.08	95.10	93.77	69.46	69.92
keel_yeast-1-4-5-8_vs_7	94.54	94.03	92.41	86.49	57.44	83.38	72.11	89.41	77.52	56.28	56.86
keel_yeast-1_vs_7	93.07	92.11	89.37	86.01	69.49	85.40	85.22	88.24	91.68	68.92	70.19
keel_yeast-2_vs_4	94.55	94.12	94.05	93.66	90.93	92.84	94.05	93.70	93.70	90.74	90.82
keel_yeast-2_vs_8	96.76	96.72	96.06	93.53	82.70	92.61	91.29	95.02	94.40	83.07	83.28
keel_yeast1	73.85	72.09	67.70	73.01	70.96	71.64	72.56	74.31	73.50	70.19	70.67
keel_yeast3	94.77	94.87	94.76	94.47	93.14	94.26	94.00	94.60	94.23	92.80	92.90
keel_yeast4	96.60	96.16	95.07	92.32	77.25	89.97	91.90	93.71	88.37	77.04	76.97
keel_yeast5	98.41	98.36	98.33	97.94	92.39	97.99	96.55	98.10	96.60	92.71	92.67
keel_yeast6	98.01	97.92	97.64	95.62	85.71	94.73	94.02	96.05	95.22	85.85	85.69

Table 11: Accuracy for ensembles in the Bagging Family.

| RbB:IC+ RbE
BAGRUS BA | 96.10 	96.47 	67.55 	67.90 | 94.62 | 94.43 | 97.97 | 73.24 73.68 | 74.12 | 70.70 | | 99.08 | 99.08
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17 0.vs.3
17 0.vs.3
1. 0.vs.3 | tPhosS tPhosS trsatimage trsegment .abalone9-18 .cleveland-0_vs_4 .cleveland-0_1-4-7_vs_2-6 .ccoli-0-1-4-7_vs_2-5 .ccoli-0-1-4-7_vs_5-6 .ccoli-0-1-4-7_vs_5-6 .ccoli-0-1-4-7_vs_5-6 .ccoli-0-2-3-4_vs_5 .ccoli-0-2-4-6_vs_5 .ccoli-0-3-4-6_vs_5 .ccoli-0-3-4-6_vs_5 .ccoli-0-4-6_vs_5 .ccoli-0-4-6_vs_5 .ccoli-0-4-6_vs_5 .ccoli-0-6-7_vs_3-5 .ccoli-0-6-7_vs_3-6 .ccoli-0-6-7_vs_3-6 .ccoli-0-6-7_vs_3-6 .ccoli-0-6-7_vs_5 .ccoli-0-6-7_vs_6 .ccoli | tPhosS tPhosS trsatimage trsegment .abalone9-18 .cleveland-0_vs_4 .cleveland-0_1-4-7_vs_2-6 .ccoli-0-1-4-7_vs_2-5 .ccoli-0-1-4-7_vs_5-6 .ccoli-0-1-4-7_vs_5-6 .ccoli-0-2-3-4_vs_5 .ccoli-0-2-4-6_vs_5 .ccoli-0-3-4-6_vs_5 .ccoli-0-3-4-7_vs_5-6 .ccoli-0-3-4-7_vs_5-6 .ccoli-0-6-7_vs_3-5 .ccoli-0-6-7_vs_3-5 .ccoli-0-6-7_vs_3-5 .ccoli-0-6-7_vs_3-5 .ccoli-0-6-7_vs_5 .ccoli-0-6-7_vs_6 .cco | t_PhosS t_satimage t_sagment abalone19 -abalone9-18 -ecoli-0-1-3-7-vs.2-6 -ecoli-0-1-4-7-vs.2-3-5 -ecoli-0-1-4-7-vs.3-5 -ecoli-0-2-3-4-vs.5 -ecoli-0-3-4-7-vs.5-6 -ecoli-0-3-4-7-vs.5-6 -ecoli-0-3-4-7-vs.5-6 -ecoli-0-3-4-7-vs.5-6 -ecoli-0-3-4-vs.5 -ecoli-0-3-4-vs.5 -ecoli-0-3-4-vs.5 -ecoli-0-4-6-vs.5 -ecoli-0-4-6-vs.5 -ecoli-0-6-7-vs.3-5 -ecoli-0-6-7-vs.3-5 -ecoli-0-6-7-vs.3-6 -ecoli-0-6-7-vs.3-6 -ecoli-0-6-7-vs.5 | tPhosS tPhosS tsatimage tsagment tsagment tsleveland-0.vs.4 lecoli-0.1-3-7.vs.2-6 lecoli-0.1-4-7.vs.2-3-5 lecoli-0.1-1.vs.2-3-5 lecoli-0.1-xs.2-3-5 lecoli-0.2-3-4.vs.5 lecoli-0.2-3-4.vs.5 lecoli-0.2-3-4.vs.5 lecoli-0.3-4-7.vs.5-6 lecoli-0.3-4-7.vs.5-6 lecoli-0.3-4-7.vs.5-6 lecoli-0.3-4-7.vs.5-6 lecoli-0.3-4-0.xs.5 lecoli-0.4-6.vs.5 lecoli-0.4-6.vs.2 lecoli-0 | tt.PhosS tt.satimage tt.segment tabalone9-18 Labalone9-18 Lecoli-0-1-3-7.vs.2-6 Lecoli-0-1-4-7.vs.2-5 Lecoli-0-1-4-7.vs.5-6 Lecoli-0-1-8-7.vs.3-5 Lecoli-0-2-3-4.vs.5 Lecoli-0-2-3-4.vs.5 Lecoli-0-3-4-7.vs.3-5 Lecoli-0-3-4-7.vs.5-6 Lecoli-0-3-4-7.vs.3-5 Lecoli-0-3-4-7.vs.5-6 Lecoli-0-4-6.vs.5 Lecoli-0-4-6.vs.5 Lecoli-0-6-7.vs.3-5 Lecoli-0-6-7.vs. | tPhosS tPhosS tsatimage tsegment .abalone9-18 .cleveland-0_vs_4 .ccoil-0-1-3-7_vs_2-6 .ccoil-0-1-4-7_vs_2-5 .ccoil-0-1-4-7_vs_5-6 .ccoil-0-1-vs_5-6 .ccoil-0-2-3-4-vs_5 .ccoil-0-2-3-4-vs_5 .ccoil-0-3-4-f_vs_5 .ccoil-0-3-4-f_vs_5 .ccoil-0-4-6_vs_5 .ccoil-0-6-7_vs_3-5 .ccoil-0-6-0-6-0-6-0-6-0-6-0-6-0-6-0-6-0-6-0- | tPhosS tPhosS tsatimage tsagment Labalone9-18 Lecleveland-0.vs.4 Lecoli-0.1-4.7.vs.2-3 Lecoli-0.1-4.7.vs.5-6 Lecoli-0.1-4.7.vs.5-6 Lecoli-0.2-3-4.vs.5 Lecoli-0.2-4.7.vs.5-6 Lecoli-0.3-4.6.vs.5 Lecoli-0.3-4.vs.5 Lecoli-0.3-4.vs.5 Lecoli-0.3-4.vs.5 Lecoli-0.3-4.vs.5 Lecoli-0.3-4.vs.5 Lecoli-0.4-6.vs.5 Lecoli-0.4-6.vs.5 Lecoli-0.4-6.vs.2 Lecoli-0.4-6.vs.5 Lecoli-0. | t_BhosS t_Lsatimage t_segment abalone918 -cleveland-0.vs.4 -ccoli-0-1.4-f.vs.2-6 -ccoli-0-1.4-T.vs.2-3-6 -ccoli-0-1.vs.2-3-5 -ccoli-0-1.vs.2-3-5 -ccoli-0-2.4-vs.5 -ccoli-0-2.4-vs.5 -ccoli-0-2.4-vs.5 -ccoli-0-3.4-f.vs.5 -ccoli-0-3.4-f.vs.5 -ccoli-0-3.4-f.vs.5 -ccoli-0-4-f.vs.5 -ccoli-0-6-7.vs.3-5 -ccoli-0-6-7.vs.3-5 -ccoli-0-6-7.vs.5 | t_PhosS t_Lsatimage t_segment abalone918 -abalone918 -eceli-0-1-3-7.vs.2-6 -ecoli-0-1-4-7.vs.2-3-5 -ecoli-0-1-4-7.vs.2-3-5 -ecoli-0-1-xs.2-3-5 -ecoli-0-2-3-4.vs.5 -ecoli-0-2-3-4.vs.5 -ecoli-0-2-3-4.vs.5 -ecoli-0-3-4-7.vs.5-6 -ecoli-0-3-4-7.vs.5-6 -ecoli-0-3-4-7.vs.5-6 -ecoli-0-3-4-7.vs.5-6 -ecoli-0-3-4-vs.5 -ecoli-0-3-4-vs.5 -ecoli-0-4-6.vs.5 -ecoli-0-4-6.vs.2 -ecoli-0-4-6.vs.2 -ecoli-0-3-4-6.vs.2 -ecoli-0-3-4-6.vs.2 -ecoli-0-3-4-6.vs.2 -ecoli-0-3-4-6.vs.2 -ecoli-0-3-4-6.vs.2 -ecoli-0-3-4-6.vs.2 -ecoli-0-3-4-6.vs.2 -ecoli-0-3-4-6.vs.2 -elass-0-1-5-vs.2 -elass-0-1-6-vs.2 -elass-0-1-6-vs.2 -elass-0-1-6-vs.5 -elass-0-1-6-vs.5 -elass-0-6-vs.5 -elass-0-6-vs.5 -elass-0-6-vs.5 -elass-0-6-vs.5 | tPhosS tPhosS tsatimage tsatimage tsatimage tsatimage tsatimage tsatimage labalone9-18 Lecoli-0-1-3-7.vs.2-6 Lecoli-0-1-4-7.vs.2-5-6 Lecoli-0-1-1.vs.2-3-5 Lecoli-0-2-3-4.vs.5 Lecoli-0-2-3-4.vs.5 Lecoli-0-3-4-7.vs.3-5 Lecoli-0-3-4-7.vs.3-5 Lecoli-0-3-4-7.vs.3-5 Lecoli-0-3-4-vs.5 Lecoli-0-4-6.vs.5 Lecoli-0-6-7.vs.3-5 Lecoli-0-6-7.vs.3-5 Lecoli-0-6-7.vs.3-5 Lecoli-0-6-7.vs.3-5 Lecoli-0-6-7.vs.3-5 Lecoli-0-6-7.vs.3-5 Lecoli-0-6-7.vs.3-5 Lecoli-0-6-7.vs.5 Lecoli-0-6-7.vs.5 Lecoli-0-6-7.vs.5 Lecoli-0-6-7.vs.5 Lecoli-0-vs.1 Lecoli-0-vs.2 Lecoli-0-vs.2 Lecoli-0-vs.2 Lecoli-0-vs.2 Lecoli-0-vs.5 Lecoli-0- | hddt_PhosS hddt_satimage hddt_satimage hddt_segment keel_abalone19 keel_abalone19 keel_cocli-0-1-3-7-vs.2-6 keel_cocli-0-1-4-7-vs.2-5 keel_cocli-0-1-4-7-vs.2-5 keel_cocli-0-1-1-xs.2-3-5 keel_cocli-0-1-xs.3-5 keel_cocli-0-2-3-4-vs.5 keel_cocli-0-2-3-4-vs.5 keel_cocli-0-3-4-vs.5 keel_cocli-0-3-4-vs.5 keel_cocli-0-4-6-vs.5 keel_cocli-0-6-7-vs.2-5 keel_cocli-0-6-7-vs.2-5 keel_cocli-0-6-7-vs.2 keel_cocli-0-6-7-vs.2 keel_cocli-0-6-7-vs.2 keel_cocli-0-6-7-vs.2 keel_cocli-0-6-7-vs.2 keel_cocli-0-6-7-vs.5 keel_cocli-0-6-7-vs.5 keel_cocli-0-6-7-vs.5 keel_cocli-0-6-7-vs.5 keel_cocli-0-6-7-vs.5 keel_cocli-0-6-vs.5 keel_glass-0-1-6-vs.5 keel_glass-0-1-6-vs.5 keel_glass-0-1-6-vs.5 keel_glass-0-6-vs.5 |

Table 11: Accuracy for ensembles in the Bagging Family.

Dataset	$_{ m SMBAG}$	BAG	${ m BAGSM100}$	${ m BAGSM200}$	${ m BAGSM500}$	$_{ m BAGSM}$	BAGRUS	BAG-RB	$_{ m BAGopB}$	$_{ m BAGopS}$	BAGopU	RbB:IC+ BAGRUS	$\substack{\text{RbB:IC+}\\\text{BAGSM}}$
keel_glass5	97.48	97.85	98.04	97.85	97.76	97.48	90.19	97.20	97.57	97.57	97.57	97.85	97.85
keel_glass6	95.23	95.70	95.89	95.61	95.42	95.42	91.96	95.51	95.42	95.51	94.95	95.61	95.70
keel_haberman	65.82	74.12	70.39	67.65	63.99	67.65	67.91	69.54	65.03	69.48	72.16	71.83	69.54
keel_iris0	98.80	98.80	98.80	98.80	98.80	98.80	98.80	98.80	98.80	98.80	98.80	98.80	98.80
$\text{keel_led7digit-0-2-4-5-6-}$	93.63	96.30	96.25	96.48	96.16	95.98	89.58	96.03	92.47	96.39	94.63	95.57	95.98
keel_new-thyroid1	97.40	96.47	96.65	96.56	96.93	97.02	94.33	97.12	96.00	96.93	96.56	96.93	96.93
keel_new-thyroid2	97.12	97.02	96.84	97.31	96.84	97.21	93.67	96.56	97.12	97.58	96.47	97.49	97.49
keel_page-blocks-1-3_vs_4	99.24	99.28	99.15	99.24	99.24	99.24	87.50	99.11	98.98	99.28	98.64	99.24	99.24
keel_page-blocks0	96.64	97.40	97.32	97.26	97.03	96.84	95.12	96.70	96.85	97.09	97.31	97.36	97.37
keel_pima	74.09	76.20	74.17	73.31	71.09	74.56	73.62	74.90	75.36	75.05	74.90	76.15	76.07
keel_segment0	99.11	99.23	99.30	99.56	99.21	99.22	98.05	99.14	99.18	99.28	98.99	99.23	99.30
keel_shuttle-c0-vs-c4	100.00	99.92	100.00	100.00	100.00	100.00	100.00	100.00	99.92	86.66	99.92	99.92	99.92
$keel_shuttle-c2-vs-c4$	100.00	99.38	100.00	100.00	100.00	100.00	98.75	100.00	99.84	99.84	99.84	99.22	99.22
keel_vehicle0	93.92	94.52	94.42	94.30	94.21	94.28	93.22	94.02	94.26	94.26	94.40	94.52	94.23
keel_vehicle1	76.83	77.57	78.13	77.52	76.90	77.12	75.79	77.40	77.80	77.61	77.23	99.72	77.61
keel_vehicle2	96.41	97.28	80.96	95.82	95.98	95.93	95.53	98.96	96.12	96.64	97.02	97.12	97.12
keel_vehicle3	77.14	78.84	77.83	77.73	76.60	77.57	75.56	77.73	77.99	77.92	78.63	78.51	78.70
keel_vowel0	97.85	98.52	98.14	98.24	98.26	98.10	95.43	97.55	97.94	98.12	97.73	98.40	98.40
keel_wisconsin	96.34	96.05	96.34	96.31	96.28	96.19	96.37	96.49	96.25	96.22	96.37	96.14	96.14
$keel_yeast-0-2-5-6_vs_3-7$	90.64	92.65	92.47	92.41	92.21	91.95	88.73	91.53	90.92	91.99	89.74	90.30	91.61
$keel_yeast-0-2-5-7-9_vs_3$	94.64	95.64	95.56	95.62	95.64	95.68	93.61	95.12	94.62	95.56	93.94	94.20	95.24
keel_yeast-0-3-5-9_vs_7-8	86.17	90.75	90.63	90.16	89.01	88.22	78.18	83.68	83.87	89.53	88.06	87.94	88.89
$keel_yeast-0-5-6-7-9_vs_4$	87.92	91.52	86.06	90.38	89.77	89.05	83.64	89.39	89.32	90.42	89.96	89.43	96.68
$\text{keel_yeast-1-2-8-9_vs_7}$	91.55	96.77	96.79	96.81	96.49	93.85	76.87	91.70	94.23	95.99	94.34	93.22	95.33
$\text{keel_yeast-1-4-5-8_vs_7}$	88.28	95.56	95.21	94.89	94.29	92.27	02.99	90.19	78.89	93.59	81.21	90.39	94.26
$keel_yeast-1_vs_7$	87.58	93.81	93.38	92.94	91.11	88.19	77.56	87.41	88.15	90.46	92.42	89.72	91.37
keel_yeast-2_vs_4	93.27	95.21	94.55	94.20	94.05	93.74	91.48	93.50	94.20	93.85	94.28	94.86	94.94
keel_yeast-2_vs_8	94.36	95.73	26.96	97.59	97.51	89.96	89.34	96.14	95.26	97.14	97.34	94.85	96.47
keel_yeast1	73.99	77.29	75.66	74.11	71.78	75.07	72.43	73.49	74.43	76.28	76.02	76.05	75.32
keel_yeast3	94.62	94.87	95.11	95.12	94.91	94.87	93.41	94.38	94.47	95.05	94.60	94.76	94.93
keel_yeast4	92.97	96.93	98.96	96.64	90.96	94.74	81.20	92.40	93.44	95.40	91.15	94.38	95.89
keel_yeast5	92.98	98.41	98.34	98.36	98.30	98.06	93.17	97.99	96.60	98.22	97.01	98.30	98.32
keel_yeast6	96.19	97.95	98.14	98.01	97.97	60.76	88.09	96.25	95.69	97.45	95.84	96.77	97.72

 $\ensuremath{\text{Table 12:}}$ Accuracy for ensembles in the Boosting Family.

Dataset	AdaM1W	AdaM1S	RUSB	MultiW	MultiS	SB100	SB200	SB500	RB-B
hddt_boundary	96.51	96.47	82.14	96.49	96.43	95.87	95.93	96.09	96.14
hddt_breast-y	67.34	65.59	65.45	66.85	66.92	63.71	60.42	59.37	65.38
$hddt_{-}cam$	95.06	95.07	80.57	95.05	95.11	94.58	94.33	93.11	94.54
$hddt_compustat$	96.64	96.69	87.65	96.53	96.59	96.76	96.87	96.69	96.71
$hddt_covtype$	98.62	98.61	96.80	98.56	98.58	98.64	98.65	98.63	98.66
hddt_credit-g	74.84	74.50	72.16	74.38	74.62	71.74	70.78	70.34	73.44
$hddt_{estate}$	86.24	84.58	63.97	87.07	86.20	87.41	86.11	80.80	86.71
hddt_german-numer	74.82	75.38	72.96	75.20	75.78	73.88	74.00	72.76	74.72
hddt_heart-v	69.80	70.90	66.40	71.10	70.80	70.90	70.60	69.50	72.80
hddt_hypo	99.01	99.05	97.67	99.07	99.05	98.92	98.96	98.87	98.90
$hddt_{ism}$	98.57	98.51	95.16	98.72	98.67	98.58	98.54	98.50	98.48
hddt_letter	99.80	99.82	99.73	99.79	99.80	99.83	99.83	99.82	99.82
hddt_oil	96.54	96.59	92.45	96.54	96.59	96.20	96.03	96.18	96.80
hddt_optdigits	99.86	99.85	99.86	99.80	99.80	99.84	99.80	99.80	99.85
hddt_page	97.37	97.17	96.62	97.60	97.57	97.38	97.26	96.97	97.51
hddt_pendigits	99.75	99.77	99.72	99.69	99.72	99.72	99.69	99.69	99.78
hddt_phoneme	89.10	89.34	88.05	89.39	89.37	88.45	88.56	87.67	89.13
hddt_PhosS	94.63	94.63	83.51	94.63	94.65	94.63	94.64	94.64	94.62
hddt_satimage	94.52	94.58	90.95	94.36	94.37	94.43	94.22	93.93	94.42
hddt_segment	99.52	99.82	99.74	99.52	99.76	99.58	99.60	99.64	99.75
keel_abalone19	99.23	99.20	84.40	99.23	99.22	99.20	99.18	99.02	98.52
keel_abalone9-18	94.42	94.31	86.81	94.12	94.39	93.93	93.65	92.89	93.57
keel_cleveland-0_vs_4	93.67	94.92	94.13	93.44	94.47	93.45	93.22	93.22	95.14
keel_ecoli-0-1-3-7_vs_2-6	97.94	97.58	94.73	97.94	97.86	96.66	96.72	96.80	97.79
keel_ecoli-0-1-4-6_vs_5	96.43	97.29	96.64	96.43	97.43	96.71	96.50	96.50	97.07
keel_ecoli-0-1-4-7_vs_2-3	95.12	95.42	94.17	95.24	95.65	94.58	94.35	94.11	94.76
keel_ecoli-0-1-4-7_vs_5-6	95.84	96.93	96.08	95.72	96.99	95.78	95.90	96.39	97.23
keel_ecoli-0-1_vs_2-3-5	95.00	95.41	94.10	94.84	94.51	93.61	93.61	93.93	95.16
keel_ecoli-0-1_vs_5	96.00	96.67	96.25	95.92	96.50	95.50	95.75	96.08	96.08
keel_ecoli-0-2-3-4_vs_5	95.15 95.18	96.04	94.65	95.45	95.84	94.36	94.85	94.85	94.85
keel_ecoli-0-2-6-7_vs_3-5 keel_ecoli-0-3-4-6_vs_5	95.18 96.00	95.63 95.81	94.11 94.63	95.27 95.32	95.36 96.29	93.84 93.66	94.29 93.95	94.20 94.73	95.18 95.32
	96.11	96.73							96.26
keel_ecoli-0-3-4-7_vs_5-6 keel_ecoli-0-3-4_vs_5	95.00	96.73	95.25 95.90	95.96 95.80	96.73 96.50	95.72 95.10	95.80 95.20	95.72 95.00	95.00
keel_ecoli-0-3-4_vs_5 keel_ecoli-0-4-6_vs_5	94.98	96.26	94.88	94.98	95.96	94.88	94.49	93.80	95.67
keel_ecoli-0-4-0_vs_3 keel_ecoli-0-6-7_vs_3-5	95.23	95.23	93.78	95.05	94.86	94.41	94.49	93.51	94.41
keel_ecoli-0-6-7_vs_5	96.36	96.55	95.27	96.45	96.64	96.09	96.18	95.73	96.45
keel_ecoli-0-vs_1	98.36	97.18	97.82	98.18	97.00	97.36	97.36	97.55	97.82
keel_ecoli1	88.15	89.11	88.51	88.81	88.63	88.21	87.86	87.68	88.69
keel_ecoli2	94.76	94.70	94.58	94.82	94.88	93.75	94.17	94.11	94.46
keel_ecoli3	91.31	91.19	90.36	91.49	91.43	90.54	90.36	90.12	91.13
keel_ecoli4	97.50	97.38	97.20	97.14	97.32	96.49	96.79	96.85	97.50
keel_glass-0-1-2-3_vs_4-5	93.27	93.08	92.52	93.36	93.18	92.06	92.34	92.90	92.34
keel_glass-0-1-4-6_vs_2	90.25	91.12	87.51	90.44	90.93	88.87	87.90	88.09	89.85
keel_glass-0-1-5_vs_2	87.67	88.49	83.84	88.26	89.53	87.21	86.05	86.05	87.09
keel_glass-0-1-6_vs_2	89.58	89.79	85.83	89.58	89.79	88.54	88.13	87.29	88.44
keel_glass-0-1-6_vs_5	97.17	97.50	98.26	97.28	96.85	96.41	96.96	97.07	97.17
keel_glass-0-4_vs_5	98.91	96.74	98.48	98.91	96.52	98.70	98.70	98.70	97.17
keel_glass-0-6_vs_5	97.78	95.37	97.59	97.41	95.74	96.67	96.67	97.41	97.41
keel_glass0	80.93	81.78	81.87	81.03	81.87	79.25	78.32	79.16	81.22
keel_glass1	78.97	78.88	78.41	78.41	78.88	78.32	77.01	74.67	79.35
keel_glass2	90.75	90.65	86.54	90.93	91.12	89.25	88.69	88.79	90.47
keel_glass4	94.67	95.42	94.67	94.67	95.70	93.93	93.74	93.83	94.86
keel_glass5	98.13	97.38	98.04	98.13	97.29	96.26	96.54	96.54	97.38
keel_glass6	95.79	96.54	96.45	95.70	96.45	94.95	95.14	94.77	96.07
keel_haberman	71.76	70.52	67.32	71.76	71.24	70.39	66.86	65.95	70.39
keel_iris0	98.80	98.53	98.80	98.80	98.53	98.80	98.80	98.80	98.80
keel_led7digit-0-2-4-5-6-	96.07	95.89	94.08	96.12	95.67	95.94	95.76	96.07	95.98
keel_new-thyroid1	96.38	98.14	97.49	96.28	97.86	96.75	97.30	97.12	97.58
keel_new-thyroid2	96.66	98.23	98.05	96.66	97.77	97.58	97.68	98.05	98.23
keel_page-blocks-1-3_vs_4	98.94	99.28	99.11	98.94	99.36	98.86	99.03	99.28	99.53
keel_page-blocks0	97.05	97.20	96.62	97.42	97.38	97.23	97.09	96.82	97.30
keel_pima	72.63	74.14	73.91	74.77	74.87	73.54	73.02	71.98	74.84
keel_segment0	99.58	99.77	99.70	99.56	99.67	99.50	99.42	99.51	99.66
keel_shuttle-c0-vs-c4	99.92	99.81	100.00	99.92	99.81	100.00	100.00	100.00	100.00
keel_shuttle-c2-vs-c4	97.83	97.21	98.75	97.83	97.21	100.00	100.00	100.00	100.00
keel_vehicle0	97.12	97.02	96.60	96.43	96.67	96.05	95.91	95.34	96.86
keel_vehicle1	78.16	77.87	78.18	78.20	78.04	78.37	78.27	77.90	78.44
keel_vehicle2	97.35	98.23	98.16	97.31	98.35	97.94	97.78	97.61	98.27
keel_vehicle3	79.22	78.87	78.98	79.24	78.51	77.78	78.13	77.45	79.15
keel_vowel0	98.81	99.43	99.25	98.85	99.27	99.19	99.25	99.15	99.45
keel_wisconsin	96.49	96.78	96.57	96.66	96.46	96.11	96.34	96.31	96.66
$keel_yeast-0-2-5-6_vs_3-7$	92.83	92.97	89.40	93.01	92.87	92.41	92.45	91.77	92.67
Continued on next page									

Table 12: Accuracy for ensembles in the Boosting Family.

Dataset	AdaM1W	AdaM1S	RUSB	MultiW	MultiS	SB100	SB200	SB500	RB-B
keel_yeast-0-2-5-7-9_vs_3	96.29	96.24	95.06	96.24	96.39	96.12	96.06	95.70	96.22
$keel_yeast-0-3-5-9_vs_7-8$	90.55	90.28	85.38	90.43	90.43	89.88	89.25	88.46	89.76
$keel_yeast-0-5-6-7-9_vs_4$	92.12	91.82	89.55	92.20	91.97	90.87	90.68	89.47	91.36
$keel_yeast-1-2-8-9_vs_7$	96.64	96.68	89.25	96.83	96.75	96.73	96.60	96.22	96.35
$keel_yeast-1-4-5-8_vs_7$	95.30	95.44	83.67	95.47	95.35	94.86	94.52	94.17	94.52
keel_yeast-1_vs_7	93.42	93.29	88.02	93.38	93.33	92.51	92.24	90.68	92.46
keel_yeast-2_vs_4	94.86	94.94	93.93	95.25	95.29	94.63	95.02	94.75	95.02
keel_yeast-2_vs_8	97.10	97.14	95.73	97.34	97.26	96.56	96.31	96.14	96.93
keel_yeast1	74.37	75.18	73.87	75.70	75.46	74.42	73.68	72.28	75.24
keel_yeast3	94.57	94.61	94.41	94.82	94.72	94.58	94.82	94.57	94.85
keel_yeast4	96.54	96.62	90.42	96.59	96.60	96.29	96.36	95.93	96.08
keel_yeast5	98.22	98.23	96.16	98.27	98.36	98.17	98.25	98.18	98.09
keel_yeast6	97.86	97.94	93.54	97.92	97.88	97.82	97.83	97.71	97.74

Table 13: AUC for Ensemble-RB and different fusion rules.

Dataset	Average	Product	Majority	Dataset	Average	Product	Majority
hddt_boundary	0.6748	0.6685	0.5415	keel_glass-0-1-4-6_vs_2	0.7662	0.7477	0.6361
$hddt_breast-y$	0.6414	0.6426	0.6017	$keel_glass-0-1-5_vs_2$	0.7551	0.7480	0.6628
$hddt_{-}cam$	0.7277	0.7251	0.5608	$keel_glass-0-1-6_vs_2$	0.7335	0.7147	0.6205
$hddt_compustat$	0.9072	0.8914	0.7981	$keel_glass-0-1-6_vs_5$	0.9948	0.9817	0.9891
hddt_covtype	0.9933	0.9849	0.9592	$keel_glass-0-4_vs_5$	0.9957	0.9940	0.9940
hddt_credit-g	0.7508	0.7520	0.6698	$keel_glass-0-6_vs_5$	0.9843	0.9849	0.9539
$hddt_{estate}$	0.6239	0.6269	0.5641	keel_glass0	0.8593	0.8455	0.7966
$hddt_german-numer$	0.7750	0.7653	0.6977	keel_glass1	0.8146	0.7967	0.7267
$hddt_heart-v$	0.6907	0.6880	0.6223	keel_glass2	0.8214	0.8154	0.6582
hddt_hypo	0.9911	0.9875	0.9580	keel_glass4	0.9117	0.8979	0.7863
$hddt_{ism}$	0.9394	0.9282	0.8892	keel_glass5	0.9922	0.9858	0.9668
$hddt_{letter}$	0.9990	0.9979	0.9749	keel_glass6	0.9530	0.9424	0.9101
$hddt_oil$	0.9128	0.9036	0.7745	keel_haberman	0.7090	0.7042	0.6575
hddt_optdigits	0.9986	0.9961	0.9906	keel_iris0	1.0000	1.0000	0.9820
$hddt_page$	0.9918	0.9826	0.9560	$keel_led7digit-0-2-4-5-6-$	0.9577	0.9512	0.8986
hddt_pendigits	0.9995	0.9973	0.9866	keel_new-thyroid1	0.9936	0.9862	0.9400
hddt_phoneme	0.9339	0.9070	0.8635	keel_new-thyroid2	0.9950	0.9787	0.9541
hddt_PhosS	0.7183	0.7366	0.5487	keel_page-blocks-1-3_vs_4	0.9997	0.9974	0.9723
hddt_satimage	0.9513	0.9331	0.8527	keel_page-blocks0	0.9913	0.9822	0.9507
hddt_segment	0.9991	0.9940	0.9880	keel_pima	0.8185	0.8018	0.7403
keel_abalone19	0.7427	0.7421	0.5875	keel_segment0	0.9983	0.9923	0.9851
keel_abalone9-18	0.7919	0.7788	0.6828	keel_shuttle-c0-vs-c4	1.0000	1.0000	1.0000
$keel_cleveland-0_vs_4$	0.9377	0.9342	0.7752	keel_shuttle-c2-vs-c4	1.0000	1.0000	1.0000
$keel_ecoli-0-1-3-7_vs_2-6$	0.9278	0.9257	0.8438	keel_vehicle0	0.9885	0.9673	0.9372
$keel_ecoli-0-1-4-6_vs_5$	0.9654	0.9543	0.8458	keel_vehicle1	0.8452	0.8283	0.7679
$keel_ecoli-0-1-4-7_vs_2-3$	0.9308	0.9134	0.8486	keel_vehicle2	0.9936	0.9775	0.9658
$keel_ecoli-0-1-4-7_vs_5-6$	0.9521	0.9384	0.8655	keel_vehicle3	0.8478	0.8339	0.7688
$keel_ecoli-0-1_vs_2-3-5$	0.9480	0.9284	0.8802	$keel_vowel0$	0.9965	0.9866	0.9651
keel_ecoli-0-1_vs_5	0.9579	0.9424	0.8459	keel_wisconsin	0.9921	0.9825	0.9645
$keel_ecoli-0-2-3-4_vs_5$	0.9690	0.9446	0.8731	$keel_yeast-0-2-5-6_vs_3-7$	0.8449	0.8367	0.7827
$keel_ecoli-0-2-6-7_vs_3-5$	0.9261	0.9117	0.8610	$keel_yeast-0-2-5-7-9_vs_3$	0.9483	0.9325	0.9005
$keel_ecoli-0-3-4-6_vs_5$	0.9568	0.9405	0.8791	$keel_yeast-0-3-5-9_vs_7-8$	0.7573	0.7503	0.6853
$keel_ecoli-0-3-4-7_vs_5-6$	0.9474	0.9285	0.8777	$keel_yeast-0-5-6-7-9_vs_4$	0.8931	0.8798	0.7818
$keel_ecoli-0-3-4_vs_5$	0.9619	0.9509	0.8567	$keel_yeast-1-2-8-9_vs_7$	0.7373	0.7351	0.6659
$keel_ecoli-0-4-6_vs_5$	0.9677	0.9526	0.8876	$keel_yeast-1-4-5-8_vs_7$	0.6477	0.6469	0.6134
$keel_ecoli-0-6-7_vs_3-5$	0.9213	0.9065	0.8477	keel_yeast-1_vs_7	0.8096	0.8074	0.7208
keel_ecoli-0-6-7_vs_5	0.9541	0.9421	0.9050	keel_yeast-2_vs_4	0.9799	0.9619	0.9064
keel_ecoli-0_vs_1	0.9954	0.9909	0.9814	keel_yeast-2_vs_8	0.8167	0.8083	0.7438
keel_ecoli1	0.9543	0.9305	0.8884	keel_yeast1	0.7949	0.7763	0.7107
keel_ecoli2	0.9429	0.9270	0.8799	keel_yeast3	0.9741	0.9628	0.9294
keel_ecoli3	0.9391	0.9233	0.8536	keel_yeast4	0.9335	0.9183	0.8117
keel_ecoli4	0.9630	0.9547	0.8327	keel_yeast5	0.9897	0.9851	0.9437
$keel_glass-0-1-2-3_vs_4-5$	0.9724	0.9461	0.9152	keel_yeast6	0.9137	0.9047	0.7971

Table 14: F-Measure for Ensemble-RB and different fusion rules.

Dataset	Average	Product	Majority	Dataset	Average	Product	Majority
hddt_boundary	0.1421	0.1723	0.1256	$keel_glass-0-1-4-6_vs_2$	0.2970	0.3154	0.2960
$hddt_breast-y$	0.4417	0.4438	0.4455	$keel_glass-0-1-5_vs_2$	0.3464	0.3340	0.3434
$hddt_{cam}$	0.1922	0.2013	0.1856	$keel_glass-0-1-6_vs_2$	0.2650	0.2688	0.2766
$hddt_compustat$	0.3404	0.3237	0.3512	$keel_glass-0-1-6_vs_5$	0.7913	0.7297	0.8324
hddt_covtype	0.8517	0.8311	0.8589	$keel_glass-0-4_vs_5$	0.9505	0.9505	0.9505
hddt_credit-g	0.5536	0.5607	0.5411	$keel_glass-0-6_vs_5$	0.8946	0.8672	0.8946
$hddt_{estate}$	0.2425	0.2490	0.2338	keel_glass0	0.7216	0.7099	0.7183
$hddt_german-numer$	0.5819	0.5854	0.5781	keel_glass1	0.6354	0.6261	0.6428
$hddt_heart-v$	0.4250	0.4265	0.4341	keel_glass2	0.2984	0.3044	0.3108
$hddt_hypo$	0.8685	0.8466	0.8727	keel_glass4	0.4748	0.4913	0.5069
$hddt_{ism}$	0.5359	0.5214	0.5432	keel_glass5	0.7606	0.6677	0.7567
$hddt_letter$	0.9569	0.9476	0.9589	keel_glass6	0.8239	0.8296	0.8125
hddt_oil	0.4510	0.4435	0.4612	keel_haberman	0.5002	0.4992	0.5011
hddt_optdigits	0.9793	0.9736	0.9814	keel_iris0	0.9813	0.9813	0.9813
hddt_page	0.8498	0.8491	0.8523	keel_led7digit-0-2-4-5-6-	0.7541	0.7384	0.7730
hddt_pendigits	0.9725	0.9671	0.9748	keel_new-thyroid1	0.9077	0.8932	0.9047
hddt_phoneme	0.7837	0.7781	0.7843	keel_new-thyroid2	0.8960	0.8788	0.9168
hddt_PhosS	0.1753	0.2042	0.1646	keel_page-blocks-1-3_vs_4	0.9284	0.9241	0.9312
hddt_satimage	0.6354	0.6180	0.6429	keel_page-blocks0	0.8455	0.8428	0.8466
hddt_segment	0.9727	0.9706	0.9736	keel_pima	0.6654	0.6687	0.6647
keel_abalone19	0.0535	0.0520	0.0546	keel_segment0	0.9683	0.9668	0.9686
keel_abalone9-18	0.3077	0.2991	0.3075	keel_shuttle-c0-vs-c4	1.0000	1.0000	1.0000
keel_cleveland-0_vs_4	0.5551	0.5544	0.5797	keel_shuttle-c2-vs-c4	1.0000	1.0000	1.0000
keel_ecoli-0-1-3-7_vs_2-6	0.6382	0.6321	0.6382	keel_vehicle0	0.8803	0.8733	0.8821
keel_ecoli-0-1-4-6_vs_5	0.6883	0.6712	0.6913	keel_vehicle1	0.6243	0.6204	0.6271
keel_ecoli-0-1-4-7_vs_2-3	0.6390	0.6236	0.6479	keel_vehicle2	0.9329	0.9114	0.9349
keel_ecoli-0-1-4-7_vs_5-6	0.7227	0.7032	0.7265	keel_vehicle3	0.6162	0.6134	0.6213
$keel_ecoli-0-1_vs_2-3-5$	0.6878	0.6848	0.7024	keel_vowel0	0.8733	0.8535	0.8887
keel_ecoli-0-1_vs_5	0.6755	0.6633	0.6876	keel_wisconsin	0.9521	0.9508	0.9503
$keel_ecoli-0-2-3-4_vs_5$	0.6741	0.6697	0.6837	keel_yeast-0-2-5-6_vs_3-7	0.5531	0.5488	0.5489
keel_ecoli-0-2-6-7_vs_3-5	0.7111	0.7094	0.7162	keel_yeast-0-2-5-7-9_vs_3	0.7434	0.7393	0.7486
$keel_ecoli-0-3-4-6_vs_5$	0.7124	0.6931	0.7179	keel_yeast-0-3-5-9_vs_7-8	0.3717	0.3761	0.3795
keel_ecoli-0-3-4-7_vs_5-6	0.7236	0.6993	0.7294	keel_yeast-0-5-6-7-9_vs_4	0.4982	0.4904	0.4969
keel_ecoli-0-3-4_vs_5	0.7103	0.7019	0.7175	keel_yeast-1-2-8-9_vs_7	0.1868	0.1785	0.1857
keel_ecoli-0-4-6_vs_5	0.7450	0.7365	0.7478	keel_yeast-1-4-5-8_vs_7	0.1644	0.1592	0.1676
keel_ecoli-0-6-7_vs_3-5	0.6796	0.6770	0.6772	keel_yeast-1_vs_7	0.3310	0.3420	0.3482
keel_ecoli-0-6-7_vs_5	0.7534	0.7389	0.7567	keel_yeast-2_vs_4	0.7149	0.7171	0.7217
keel_ecoli-0_vs_1	0.9765	0.9765	0.9765	keel_yeast-2_vs_8	0.4098	0.4236	0.4251
keel_ecoli1	0.7876	0.7862	0.7826	keel_yeast1	0.5920	0.5921	0.5874
keel_ecoli2	0.7915	0.7764	0.7921	keel_yeast3	0.7788	0.7731	0.7796
keel_ecoli3	0.6214	0.6156	0.6142	keel_yeast4	0.3336	0.3225	0.3421
keel_ecoli4	0.6585	0.6562	0.6589	keel_yeast5	0.7311	0.7157	0.7344
keel_glass-0-1-2-3_vs_4-5	0.8412	0.8353	0.8498	keel_yeast6	0.3685	0.3711	0.3849
	0.0112	0.0000	0.0100		0.0000	0.0111	0.0010

Table 15: AUC for Bagging-RB and different fusion rules.

Dataset	Average	Product	Majority	Dataset	Average	Product	Majority
hddt_boundary	0.6945	0.6867	0.5246	$keel_glass-0-1-4-6_vs_2$	0.7510	0.7454	0.6391
$hddt_breast-y$	0.6460	0.6445	0.5932	$keel_glass-0-1-5_vs_2$	0.7466	0.7318	0.5832
$hddt_{cam}$	0.7631	0.7664	0.5584	$keel_glass-0-1-6_vs_2$	0.7148	0.7111	0.5876
$hddt_compustat$	0.9107	0.8962	0.7863	$keel_glass-0-1-6_vs_5$	0.9938	0.9853	0.9791
$hddt$ _covtype	0.9934	0.9858	0.9560	$keel_glass-0-4_vs_5$	0.9964	0.9940	0.9940
hddt_credit-g	0.7695	0.7614	0.6907	$keel_glass-0-6_vs_5$	0.9837	0.9829	0.9539
$hddt_{estate}$	0.6239	0.6257	0.5620	keel_glass0	0.8694	0.8497	0.7985
$hddt_{german-numer}$	0.7856	0.7658	0.7124	keel_glass1	0.8264	0.8096	0.7534
$hddt_heart-v$	0.7067	0.7094	0.6248	keel_glass2	0.8020	0.7950	0.6000
hddt_hypo	0.9905	0.9867	0.9642	keel_glass4	0.9322	0.9221	0.7961
$hddt_{ism}$	0.9421	0.9323	0.8875	keel_glass5	0.9905	0.9849	0.9768
$hddt_{letter}$	0.9994	0.9985	0.9725	keel_glass6	0.9602	0.9482	0.9217
$hddt_{-}oil$	0.9201	0.9152	0.7628	keel_haberman	0.7130	0.7106	0.6528
hddt_optdigits	0.9980	0.9958	0.9905	keel_iris0	1.0000	1.0000	0.9820
$hddt_{-}page$	0.9918	0.9833	0.9556	keel_led7digit-0-2-4-5-6-	0.9605	0.9568	0.8999
$hddt_pendigits$	0.9996	0.9978	0.9871	keel_new-thyroid1	0.9949	0.9881	0.9509
hddt_phoneme	0.9379	0.9110	0.8679	keel_new-thyroid2	0.9953	0.9854	0.9460
hddt_PhosS	0.7502	0.7605	0.5297	keel_page-blocks-1-3_vs_4	0.9995	0.9956	0.9718
hddt_satimage	0.9517	0.9354	0.8458	keel_page-blocks0	0.9912	0.9827	0.9518
hddt_segment	0.9989	0.9939	0.9881	keel_pima	0.8214	0.8022	0.7427
keel_abalone19	0.7685	0.7792	0.5387	keel_segment0	0.9986	0.9930	0.9851
keel_abalone9-18	0.8081	0.8008	0.6770	keel_shuttle-c0-vs-c4	1.0000	1.0000	1.0000
$keel_cleveland-0_vs_4$	0.9539	0.9528	0.7968	keel_shuttle-c2-vs-c4	1.0000	1.0000	1.0000
keel_ecoli-0-1-3-7_vs_2-6	0.9321	0.9206	0.8070	keel_vehicle0	0.9896	0.9673	0.9428
$keel_ecoli-0-1-4-6_vs_5$	0.9637	0.9595	0.8554	keel_vehicle1	0.8510	0.8371	0.7570
$keel_ecoli-0-1-4-7_vs_2-3$	0.9333	0.9214	0.8445	keel_vehicle2	0.9945	0.9812	0.9684
keel_ecoli-0-1-4-7_vs_5-6	0.9603	0.9493	0.8489	keel_vehicle3	0.8475	0.8341	0.7580
$keel_ecoli-0-1_vs_2-3-5$	0.9507	0.9383	0.8833	keel_vowel0	0.9965	0.9872	0.9720
keel_ecoli-0-1_vs_5	0.9709	0.9596	0.8536	keel_wisconsin	0.9924	0.9829	0.9639
$keel_ecoli-0-2-3-4_vs_5$	0.9729	0.9587	0.8808	$keel_yeast-0-2-5-6_vs_3-7$	0.8533	0.8459	0.7881
$keel_ecoli-0-2-6-7_vs_3-5$	0.9285	0.9197	0.8710	keel_yeast-0-2-5-7-9_vs_3	0.9444	0.9320	0.9075
$keel_ecoli-0-3-4-6_vs_5$	0.9667	0.9536	0.8755	keel_yeast-0-3-5-9_vs_7-8	0.7638	0.7565	0.6932
keel_ecoli-0-3-4-7_vs_5-6	0.9497	0.9369	0.8546	keel_yeast-0-5-6-7-9_vs_4	0.8963	0.8880	0.7637
keel_ecoli-0-3-4_vs_5	0.9671	0.9577	0.8667	keel_yeast-1-2-8-9_vs_7	0.7592	0.7599	0.6008
keel_ecoli-0-4-6_vs_5	0.9721	0.9628	0.8897	keel_yeast-1-4-5-8_vs_7	0.6617	0.6639	0.5829
$keel_ecoli-0-6-7_vs_3-5$	0.9346	0.9257	0.8497	keel_yeast-1_vs_7	0.8184	0.8164	0.6856
keel_ecoli-0-6-7_vs_5	0.9610	0.9484	0.9050	keel_yeast-2_vs_4	0.9799	0.9644	0.8986
keel_ecoli-0_vs_1	0.9925	0.9901	0.9807	keel_yeast-2_vs_8	0.8204	0.8162	0.7659
keel_ecoli1	0.9573	0.9284	0.8881	keel_yeast1	0.7992	0.7803	0.7237
keel_ecoli2	0.9473	0.9309	0.8864	keel_yeast3	0.9745	0.9636	0.9276
keel_ecoli3	0.9379	0.9260	0.8527	keel_yeast4	0.9381	0.9280	0.8130
keel_ecoli4	0.9724	0.9659	0.8483	keel_yeast5	0.9901	0.9847	0.9417
$keel_glass-0-1-2-3_vs_4-5$	0.9747	0.9515	0.9224	keel_yeast6	0.9168	0.9120	0.7975
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Table 16: F-Measure for Bagging-RB and different fusion rules.

Dataset	Average	Product	Majority	Dataset	Average	Product	Majority
hddt_boundary	0.1132	0.1468	0.0892	$keel_glass-0-1-4-6_vs_2$	0.3398	0.3260	0.3429
$hddt_breast-y$	0.4496	0.4657	0.4338	$keel_glass-0-1-5_vs_2$	0.2671	0.2583	0.2513
$hddt_cam$	0.1916	0.2002	0.1886	$keel_glass-0-1-6_vs_2$	0.2425	0.2312	0.2335
$hddt_compustat$	0.3632	0.3393	0.3724	$keel_glass-0-1-6_vs_5$	0.7882	0.7457	0.8190
$hddt_covtype$	0.8586	0.8409	0.8645	$keel_glass-0-4_vs_5$	0.9505	0.9505	0.9505
hddt_credit-g	0.5790	0.5866	0.5706	$keel_glass-0-6_vs_5$	0.8946	0.8857	0.8946
$hddt_{estate}$	0.2373	0.2474	0.2320	keel_glass0	0.7206	0.7056	0.7222
$hddt_german-numer$	0.6002	0.5949	0.5977	keel_glass1	0.6791	0.6584	0.6792
$hddt_heart-v$	0.4350	0.4377	0.4323	keel_glass2	0.2500	0.2869	0.2548
hddt_hypo	0.8793	0.8616	0.8840	keel_glass4	0.5512	0.5331	0.5291
$hddt_{ism}$	0.5660	0.5433	0.5728	keel_glass5	0.7571	0.6642	0.7695
$hddt_{letter}$	0.9618	0.9503	0.9637	keel_glass6	0.8423	0.8395	0.8412
$hddt_oil$	0.5254	0.5052	0.5276	keel_haberman	0.4943	0.5012	0.4931
hddt_optdigits	0.9811	0.9717	0.9827	keel_iris0	0.9813	0.9813	0.9813
$hddt_page$	0.8568	0.8582	0.8575	keel_led7digit-0-2-4-5-6-	0.7779	0.7722	0.7813
hddt_pendigits	0.9775	0.9706	0.9784	keel_new-thyroid1	0.9124	0.9041	0.9150
hddt_phoneme	0.7905	0.7849	0.7926	keel_new-thyroid2	0.8993	0.8787	0.9108
$hddt_PhosS$	0.1204	0.1655	0.1118	keel_page-blocks-1-3_vs_4	0.9271	0.9084	0.9271
$hddt_satimage$	0.6427	0.6260	0.6497	keel_page-blocks0	0.8530	0.8467	0.8544
hddt_segment	0.9753	0.9718	0.9759	keel_pima	0.6721	0.6766	0.6682
keel_abalone19	0.0607	0.0636	0.0575	keel_segment0	0.9700	0.9668	0.9714
keel_abalone9-18	0.3487	0.3349	0.3516	keel_shuttle-c0-vs-c4	1.0000	1.0000	1.0000
keel_cleveland-0_vs_4	0.6396	0.6386	0.6552	keel_shuttle-c2-vs-c4	1.0000	1.0000	1.0000
$keel_ecoli-0-1-3-7_vs_2-6$	0.6226	0.5988	0.5988	keel_vehicle0	0.8803	0.8677	0.8864
keel_ecoli-0-1-4-6_vs_5	0.7310	0.7212	0.7389	keel_vehicle1	0.6197	0.6190	0.6214
$keel_ecoli-0-1-4-7_vs_2-3$	0.6721	0.6560	0.6924	keel_vehicle2	0.9404	0.9276	0.9447
$keel_ecoli-0-1-4-7_vs_5-6$	0.7195	0.6945	0.7278	keel_vehicle3	0.6140	0.6036	0.6179
$keel_ecoli-0-1_vs_2-3-5$	0.7247	0.7035	0.7372	keel_vowel0	0.8787	0.8655	0.8906
keel_ecoli-0-1_vs_5	0.7272	0.7129	0.7185	keel_wisconsin	0.9501	0.9506	0.9502
$keel_ecoli-0-2-3-4_vs_5$	0.7135	0.7138	0.7228	$keel_yeast-0-2-5-6_vs_3-7$	0.5957	0.5886	0.5969
$keel_ecoli-0-2-6-7_vs_3-5$	0.7537	0.7537	0.7569	keel_yeast-0-2-5-7-9_vs_3	0.7775	0.7690	0.7845
$keel_ecoli-0-3-4-6_vs_5$	0.7425	0.7460	0.7396	$keel_yeast-0-3-5-9_vs_7-8$	0.3869	0.3805	0.3905
$keel_ecoli-0-3-4-7_vs_5-6$	0.7103	0.6928	0.7211	$keel_yeast-0-5-6-7-9_vs_4$	0.5246	0.5219	0.5239
keel_ecoli-0-3-4_vs_5	0.7475	0.7376	0.7596	keel_yeast-1-2-8-9_vs_7	0.1785	0.1805	0.1809
keel_ecoli-0-4-6_vs_5	0.7638	0.7609	0.7812	keel_yeast-1-4-5-8_vs_7	0.1565	0.1515	0.1687
keel_ecoli-0-6-7_vs_3-5	0.7124	0.7246	0.7095	keel_yeast-1_vs_7	0.3350	0.3441	0.3357
keel_ecoli-0-6-7_vs_5	0.7614	0.7575	0.7583	keel_yeast-2_vs_4	0.7292	0.7255	0.7208
keel_ecoli-0_vs_1	0.9728	0.9716	0.9753	keel_yeast-2_vs_8	0.5572	0.5642	0.5717
keel_ecoli1	0.7847	0.7828	0.7853	keel_yeast1	0.6027	0.6028	0.6031
keel_ecoli2	0.7910	0.7679	0.8020	keel_yeast3	0.7811	0.7743	0.7832
keel_ecoli3	0.6174	0.6078	0.6207	keel_yeast4	0.3884	0.3629	0.4055
keel_ecoli4	0.6947	0.6820	0.6889	keel_yeast5	0.7269	0.6988	0.7374
$keel_glass-0-1-2-3_vs_4-5$	0.8508	0.8385	0.8567	keel_yeast6	0.4575	0.4524	0.4532
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Table 17: AUC for Ensemble-RB and different base classifiers.

Dataset	J48	SVM	KNN	Dataset	J48	SVM	KNN
hddt_boundary	0.6732	0.7410	0.5720	keel_glass-0-1-4-6_vs_2	0.7628	0.6852	0.7431
$hddt_breast-y$	0.6379	0.6441	0.6080	$keel_glass-0-1-5_vs_2$	0.7572	0.5562	0.7164
$hddt_cam$	0.7248	0.7963	0.6925	$keel_glass-0-1-6_vs_2$	0.7179	0.6268	0.7099
$hddt_compustat$	0.9063	0.8018	0.9292	$keel_glass-0-1-6_vs_5$	0.9953	0.9704	0.9883
$hddt_{-}covtype$	0.9930	0.9189	0.9918	$keel_glass-0-4_vs_5$	0.9947	0.9872	0.9956
hddt_credit-g	0.7481	0.7693	0.6913	$keel_glass-0-6_vs_5$	0.9841	0.9718	0.9967
$hddt_{estate}$	0.6216	0.6164	0.5762	$keel_glass0$	0.8593	0.7874	0.8699
$hddt_german-numer$	0.7727	0.7826	0.6865	keel_glass1	0.8120	0.6163	0.8617
$hddt_heart-v$	0.6926	0.6854	0.6368	$keel_glass2$	0.8157	0.6740	0.7806
hddt_hypo	0.9906	0.9677	0.8949	$keel_glass4$	0.9177	0.9149	0.9565
hddt_ism	0.9388	0.9211	0.9252	keel_glass5	0.9911	0.9643	0.9885
$hddt_{letter}$	0.9990	0.9935	0.9996	keel_glass6	0.9514	0.9586	0.9615
$hddt_oil$	0.9081	0.9147	0.8462	keel_haberman	0.7059	0.6333	0.6223
hddt_optdigits	0.9983	0.9993	1.0000	keel_iris0	0.9998	1.0000	1.0000
hddt_page	0.9917	0.9244	0.9779	keel_led7digit-0-2-4-5-6-	0.9562	0.9588	0.9665
hddt_pendigits	0.9995	0.9927	0.9999	keel_new-thyroid1	0.9942	0.9986	0.9983
hddt_phoneme	0.9331	0.8243	0.9341	keel_new-thyroid2	0.9946	0.9988	0.9973
hddt_PhosS	0.7109	0.7446	0.5449	keel_page-blocks-1-3_vs_4	0.9997	0.9522	0.9995
hddt_satimage	0.9505	0.7696	0.9562	keel_page-blocks0	0.9913	0.9265	0.9774
hddt_segment	0.9988	0.9984	0.9994	keel_pima	0.8158	0.8245	0.7608
keel_abalone19	0.7398	0.7973	0.7227	keel_segment0	0.9984	0.9985	0.9996
keel_abalone9-18	0.7920	0.8305	0.7516	keel_shuttle-c0-vs-c4	1.0000	1.0000	0.9976
$keel_cleveland-0_vs_4$	0.9336	0.9570	0.9619	keel_shuttle-c2-vs-c4	1.0000	1.0000	0.9989
keel_ecoli-0-1-3-7_vs_2-6	0.9088	0.9312	0.9095	keel_vehicle0	0.9880	0.9877	0.9771
$keel_ecoli-0-1-4-6_vs_5$	0.9654	0.9155	0.9396	keel_vehicle1	0.8445	0.8140	0.7861
keel_ecoli-0-1-4-7_vs_2-3	0.9273	0.9182	0.9254	keel_vehicle2	0.9935	0.9696	0.9853
keel_ecoli-0-1-4-7_vs_5-6	0.9511	0.9586	0.9557	keel_vehicle3	0.8443	0.7919	0.7794
$keel_ecoli-0-1_vs_2-3-5$	0.9473	0.9358	0.9379	keel_vowel0	0.9962	0.9801	0.9992
keel_ecoli-0-1_vs_5	0.9569	0.9377	0.9519	keel_wisconsin	0.9922	0.9942	0.9931
$keel_ecoli-0-2-3-4_vs_5$	0.9658	0.9248	0.9718	$keel_yeast-0-2-5-6_vs_3-7$	0.8417	0.8586	0.8334
keel_ecoli-0-2-6-7_vs_3-5	0.9260	0.9059	0.9215	keel_yeast-0-2-5-7-9_vs_3	0.9464	0.9343	0.9430
keel_ecoli-0-3-4-6_vs_5	0.9593	0.9180	0.9629	keel_yeast-0-3-5-9_vs_7-8	0.7584	0.7911	0.7649
keel_ecoli-0-3-4-7_vs_5-6	0.9458	0.9405	0.9504	keel_yeast-0-5-6-7-9_vs_4	0.8900	0.8663	0.8628
keel_ecoli-0-3-4_vs_5	0.9564	0.9058	0.9480	keel_yeast-1-2-8-9_vs_7	0.7366	0.7877	0.7551
keel_ecoli-0-4-6_vs_5	0.9694	0.9207	0.9601	keel_yeast-1-4-5-8_vs_7	0.6451	0.7075	0.6662
keel_ecoli-0-6-7_vs_3-5	0.9143	0.8999	0.9166	keel_yeast-1_vs_7	0.8055	0.8354	0.7806
keel_ecoli-0-6-7_vs_5	0.9567	0.9362	0.9243	keel_yeast-2_vs_4	0.9770	0.9485	0.9718
keel_ecoli-0_vs_1	0.9921	0.9953	0.9918	keel_yeast-2_vs_8	0.8158	0.7898	0.7949
keel_ecoli1	0.9536	0.9453	0.9470	keel_yeast1	0.7928	0.7850	0.7433
keel_ecoli2	0.9438	0.9350	0.9514	keel_yeast3	0.9735	0.9672	0.9531
keel_ecoli3	0.9388	0.9366	0.9114	keel_yeast4	0.9338	0.8953	0.9163
keel_ecoli4	0.9510	0.9947	0.9911	keel_yeast5	0.9895	0.9846	0.9898
keel_glass-0-1-2-3_vs_4-5	0.9711	0.9566	0.9739	keel_yeast6	0.9141	0.9231	0.9108
1001-g1000-0-1-2-0-V5-4-0	0.0111	3.3300	5.5165	NCCI_yCastO	0.0141	0.0201	0.0100

Table 18: F-Measure for Ensemble-RB and different base classifiers.

Dataset	J48	SVM	KNN	Dataset	J48	SVM	KNN
hddt_boundary	0.1431	0.1456	0.0732	keel_glass-0-1-4-6_vs_2	0.2884	0.1753	0.2993
$hddt_breast-y$	0.4425	0.4528	0.3996	$keel_glass-0-1-5_vs_2$	0.3507	0.1451	0.2551
$hddt_cam$	0.1872	0.2888	0.1404	$keel_glass-0-1-6_vs_2$	0.2790	0.1282	0.2264
$hddt_compustat$	0.3460	0.1950	0.4156	$keel_glass-0-1-6_vs_5$	0.7788	0.5247	0.7185
$hddt_{-}covtype$	0.8473	0.4095	0.8565	$keel_glass-0-4_vs_5$	0.9505	0.7560	0.9292
hddt_credit-g	0.5481	0.5853	0.4993	$keel_glass-0-6_vs_5$	0.8946	0.5516	0.8774
$hddt_{estate}$	0.2385	0.2049	0.2181	$keel_glass0$	0.7138	0.5960	0.7134
$hddt_german-numer$	0.5801	0.5956	0.4658	$keel_glass1$	0.6299	0.4678	0.6957
$hddt_heart-v$	0.4242	0.4885	0.3639	$keel_glass2$	0.2962	0.1856	0.2974
hddt_hypo	0.8687	0.7074	0.5392	keel_glass4	0.4791	0.4708	0.6493
$hddt_{ism}$	0.5371	0.2598	0.4938	$keel_glass5$	0.7306	0.4531	0.6432
$hddt_{letter}$	0.9548	0.6462	0.9788	keel_glass6	0.8276	0.8180	0.8467
hddt_oil	0.4396	0.3869	0.4794	keel_haberman	0.5015	0.2997	0.3767
hddt_optdigits	0.9791	0.9879	0.9977	keel_iris0	0.9813	1.0000	1.0000
$hddt_page$	0.8506	0.6465	0.7865	keel_led7digit-0-2-4-5-6-	0.7489	0.6640	0.7051
hddt_pendigits	0.9720	0.8216	0.9872	keel_new-thyroid1	0.8948	0.8982	0.9489
hddt_phoneme	0.7834	0.6324	0.7903	keel_new-thyroid2	0.8895	0.9185	0.9390
$hddt_PhosS$	0.1824	0.2305	0.1020	keel_page-blocks-1-3_vs_4	0.9525	0.5187	0.9668
hddt_satimage	0.6300	0.2895	0.6259	keel_page-blocks0	0.8454	0.6590	0.7888
hddt_segment	0.9739	0.9741	0.9755	keel_pima	0.6654	0.6521	0.5616
keel_abalone19	0.0553	0.0439	0.0382	keel_segment0	0.9692	0.9674	0.9756
keel_abalone9-18	0.3058	0.3292	0.2471	keel_shuttle-c0-vs-c4	1.0000	0.9959	0.9959
$keel_cleveland-0_vs_4$	0.5761	0.6354	0.6098	keel_shuttle-c2-vs-c4	1.0000	0.9857	0.8495
$keel_ecoli-0-1-3-7_vs_2-6$	0.6321	0.5136	0.4379	keel_vehicle0	0.8775	0.8740	0.8469
$keel_ecoli-0-1-4-6_vs_5$	0.6940	0.6406	0.8220	keel_vehicle1	0.6140	0.5798	0.5278
keel_ecoli-0-1-4-7_vs_2-3	0.6272	0.5993	0.6520	keel_vehicle2	0.9274	0.8199	0.8978
keel_ecoli-0-1-4-7_vs_5-6	0.7221	0.6301	0.7281	keel_vehicle3	0.6125	0.5649	0.4976
$keel_ecoli-0-1_vs_2-3-5$	0.6968	0.6601	0.7160	$keel_vowel0$	0.8756	0.6929	0.9868
keel_ecoli-0-1_vs_5	0.6728	0.7597	0.7899	keel_wisconsin	0.9504	0.9603	0.9424
$keel_ecoli-0-2-3-4_vs_5$	0.6788	0.7475	0.7823	$keel_yeast-0-2-5-6_vs_3-7$	0.5469	0.5104	0.4717
$keel_ecoli-0-2-6-7_vs_3-5$	0.7025	0.5631	0.7017	keel_yeast-0-2-5-7-9_vs_3	0.7385	0.7000	0.7088
keel_ecoli-0-3-4-6_vs_5	0.7136	0.7296	0.8012	keel_yeast-0-3-5-9_vs_7-8	0.3648	0.3353	0.4072
keel_ecoli-0-3-4-7_vs_5-6	0.7057	0.6468	0.7298	keel_yeast-0-5-6-7-9_vs_4	0.4912	0.4453	0.4732
keel_ecoli-0-3-4_vs_5	0.7073	0.7500	0.8102	keel_yeast-1-2-8-9_vs_7	0.1785	0.1248	0.1605
keel_ecoli-0-4-6_vs_5	0.7430	0.7386	0.8134	keel_yeast-1-4-5-8_vs_7	0.1576	0.1226	0.1481
keel_ecoli-0-6-7_vs_3-5	0.6679	0.5825	0.6423	keel_yeast-1_vs_7	0.3216	0.2982	0.2759
keel_ecoli-0-6-7_vs_5	0.7454	0.6442	0.6659	keel_yeast-2_vs_4	0.7148	0.7002	0.7263
keel_ecoli-0_vs_1	0.9753	0.9608	0.9503	keel_yeast-2_vs_8	0.4162	0.4599	0.3651
keel_ecoli1	0.7836	0.7483	0.7523	keel_yeast1	0.5883	0.5734	0.5034
keel_ecoli2	0.8053	0.7122	0.7966	keel_yeast3	0.7798	0.6751	0.7011
keel_ecoli3	0.6217	0.5668	0.6113	keel_yeast4	0.3336	0.2713	0.3279
keel_ecoli4	0.6601	0.7384	0.8016	keel_yeast5	0.7168	0.4671	0.6473
keel_glass-0-1-2-3_vs_4-5	0.8461	0.8137	0.8745	keel_yeast6	0.3684	0.3119	0.3211
0			2.09			2.00	J

Table 19: AUC for Bagging-RB and different base classifiers.

Dataset	J48	SVM	KNN	Dataset	J48	SVM	KNN
hddt_boundary	0.6895	0.7444	0.5781	keel_glass-0-1-4-6_vs_2	0.7545	0.6779	0.7133
$hddt_breast-y$	0.6476	0.6539	0.6178	$keel_glass-0-1-5_vs_2$	0.7488	0.5945	0.6932
$hddt_cam$	0.7613	0.8089	0.7051	$keel_glass-0-1-6_vs_2$	0.7010	0.6166	0.7256
$hddt_compustat$	0.9091	0.8067	0.9305	$keel_glass-0-1-6_vs_5$	0.9916	0.9758	0.9898
$hddt_{covtype}$	0.9931	0.9197	0.9925	$keel_glass-0-4_vs_5$	0.9940	0.9872	0.9961
hddt_credit-g	0.7705	0.7725	0.7092	$keel_glass-0-6_vs_5$	0.9859	0.9714	0.9965
$hddt_{estate}$	0.6223	0.6202	0.5840	$keel_glass0$	0.8705	0.7782	0.8771
hddt_german-numer	0.7836	0.7860	0.6910	keel_glass1	0.8263	0.6577	0.8662
hddt_heart-v	0.7111	0.7086	0.6492	$keel_glass2$	0.8079	0.6791	0.7791
hddt_hypo	0.9901	0.9704	0.8708	keel_glass4	0.9320	0.9458	0.9578
hddt_ism	0.9414	0.9236	0.9268	keel_glass5	0.9918	0.9634	0.9871
$hddt_{letter}$	0.9993	0.9932	0.9999	keel_glass6	0.9619	0.9582	0.9575
hddt_oil	0.9171	0.9189	0.8438	keel_haberman	0.7146	0.6241	0.6233
hddt_optdigits	0.9974	0.9989	1.0000	keel_iris0	0.9997	1.0000	1.0000
hddt_page	0.9915	0.9283	0.9805	keel_led7digit-0-2-4-5-6-	0.9614	0.9623	0.9682
hddt_pendigits	0.9995	0.9928	0.9999	keel_new-thyroid1	0.9945	0.9986	0.9978
hddt_phoneme	0.9375	0.8237	0.9344	keel_new-thyroid2	0.9957	0.9988	0.9971
hddt_PhosS	0.7418	0.7472	0.5666	keel_page-blocks-1-3_vs_4	0.9994	0.9484	0.9994
hddt_satimage	0.9510	0.7765	0.9582	keel_page-blocks0	0.9910	0.9307	0.9791
hddt_segment	0.9983	0.9984	0.9996	keel_pima	0.8192	0.8267	0.7663
keel_abalone19	0.7631	0.8148	0.7464	keel_segment0	0.9985	0.9984	0.9997
keel_abalone9-18	0.8047	0.8381	0.7783	keel_shuttle-c0-vs-c4	1.0000	1.0000	0.9955
keel_cleveland-0_vs_4	0.9560	0.9609	0.9657	keel_shuttle-c2-vs-c4	1.0000	1.0000	0.9951
$keel_ecoli-0-1-3-7_vs_2-6$	0.9278	0.9522	0.9234	keel_vehicle0	0.9891	0.9901	0.9789
$keel_ecoli-0-1-4-6_vs_5$	0.9655	0.9227	0.9588	keel_vehicle1	0.8481	0.8136	0.7921
$keel_ecoli-0-1-4-7_vs_2-3$	0.9333	0.9220	0.9338	keel_vehicle2	0.9942	0.9708	0.9854
keel_ecoli-0-1-4-7_vs_5-6	0.9534	0.9547	0.9567	keel_vehicle3	0.8425	0.7938	0.7913
keel_ecoli-0-1_vs_2-3-5	0.9531	0.9379	0.9509	keel_vowel0	0.9964	0.9791	0.9991
keel_ecoli-0-1_vs_5	0.9709	0.9378	0.9385	keel_wisconsin	0.9922	0.9942	0.9935
keel_ecoli-0-2-3-4_vs_5	0.9640	0.9297	0.9560	keel_yeast-0-2-5-6_vs_3-7	0.8526	0.8501	0.8430
keel_ecoli-0-2-6-7_vs_3-5	0.9234	0.9167	0.9333	keel_yeast-0-2-5-7-9_vs_3	0.9412	0.9291	0.9491
keel_ecoli-0-3-4-6_vs_5	0.9664	0.9234	0.9479	keel_yeast-0-3-5-9_vs_7-8	0.7609	0.7898	0.7719
keel_ecoli-0-3-4-7_vs_5-6	0.9497	0.9478	0.9555	keel_yeast-0-5-6-7-9_vs_4	0.8934	0.8669	0.8698
keel_ecoli-0-3-4_vs_5	0.9622	0.9319	0.9340	keel_yeast-1-2-8-9_vs_7	0.7547	0.7914	0.7623
keel_ecoli-0-4-6_vs_5	0.9646	0.9329	0.9309	keel_yeast-1-4-5-8_vs_7	0.6555	0.7097	0.6752
keel_ecoli-0-6-7_vs_3-5	0.9297	0.9034	0.9238	keel_veast-1_vs_7	0.8094	0.8338	0.7904
keel_ecoli-0-6-7_vs_5	0.9633	0.9432	0.9451	keel_yeast-2_vs_4	0.9800	0.9518	0.9704
keel_ecoli-0_vs_1	0.9933	0.9949	0.9915	keel_yeast-2_vs_8	0.8070	0.7841	0.7970
keel_ecoli1	0.9546	0.9484	0.9485	keel_yeast1	0.7978	0.7849	0.7488
keel_ecoli2	0.9468	0.9384	0.9529	keel_yeast3	0.9741	0.9673	0.9564
keel_ecoli3	0.9338	0.9402	0.9214	keel_yeast4	0.9370	0.8970	0.9218
keel_ecoli4	0.9647	0.9402 0.9954	0.9214 0.9922	keel_yeast5	0.9898	0.9860	0.9210
keel_glass-0-1-2-3_vs_4-5	0.9047 0.9729	0.9699	0.9322 0.9727	keel_yeast6	0.9333	0.9319	0.9206
NCC1_g1a55-U-1-2-0_V\$_4-0	0.3123	0.3033	0.0141	Reel_yeast0	0.9100	0.0010	0.9200

Table 20: F-Measure for Bagging-RB and different base classifiers.

J48 SVM KNN Dataset

Dataset	J48	SVM	KNN	Dataset	J48	SVM	KNN
hddt_boundary	0.1130	0.1456	0.0734	keel_glass-0-1-4-6_vs_2	0.3158	0.1911	0.2705
$hddt_breast-y$	0.4184	0.4526	0.4023	$keel_glass-0-1-5_vs_2$	0.2620	0.1773	0.2744
$hddt_cam$	0.1948	0.3049	0.1296	$keel_glass-0-1-6_vs_2$	0.2524	0.2034	0.2300
$hddt_compustat$	0.3736	0.1975	0.4355	$keel_glass-0-1-6_vs_5$	0.7789	0.5079	0.7621
$hddt_{covtype}$	0.8508	0.3988	0.8538	$keel_glass-0-4_vs_5$	0.9505	0.7608	0.8925
hddt_credit-g	0.5731	0.5947	0.4947	$keel_glass-0-6_vs_5$	0.8946	0.5563	0.8640
$hddt_{estate}$	0.2397	0.2648	0.2215	keel_glass0	0.7272	0.6367	0.7204
$hddt_german-numer$	0.5911	0.6055	0.4828	keel_glass1	0.6613	0.5408	0.7062
$hddt_heart-v$	0.4883	0.4756	0.4037	keel_glass2	0.2944	0.2113	0.3071
hddt_hypo	0.8688	0.7047	0.5255	keel_glass4	0.5315	0.5513	0.6421
$hddt_{ism}$	0.5614	0.2430	0.5108	keel_glass5	0.7249	0.5048	0.6689
$hddt_{letter}$	0.9632	0.6704	0.9794	keel_glass6	0.8423	0.8205	0.8384
$hddt_{-}oil$	0.5207	0.4539	0.4965	keel_haberman	0.5043	0.4161	0.3918
hddt_optdigits	0.9816	0.9884	0.9971	keel_iris0	0.9813	1.0000	1.0000
$hddt_page$	0.8524	0.6440	0.7932	keel_led7digit-0-2-4-5-6-	0.7690	0.6918	0.7177
hddt_pendigits	0.9778	0.8471	0.9875	keel_new-thyroid1	0.9153	0.9451	0.9539
hddt_phoneme	0.7907	0.6478	0.7912	keel_new-thyroid2	0.8917	0.9271	0.9356
hddt_PhosS	0.1093	0.2421	0.1020	keel_page-blocks-1-3_vs_4	0.9205	0.5541	0.9359
hddt_satimage	0.6450	0.2917	0.6424	keel_page-blocks0	0.8464	0.6060	0.7892
hddt_segment	0.9747	0.9828	0.9761	keel_pima	0.6664	0.6682	0.5973
keel_abalone19	0.0466	0.0596	0.0370	keel_segment0	0.9718	0.9798	0.9747
keel_abalone9-18	0.3259	0.3210	0.2610	keel_shuttle-c0-vs-c4	1.0000	0.9959	0.9959
keel_cleveland-0_vs_4	0.6419	0.7011	0.6566	keel_shuttle-c2-vs-c4	1.0000	1.0000	0.8271
keel_ecoli-0-1-3-7_vs_2-6	0.6255	0.5327	0.4966	keel_vehicle0	0.8731	0.8769	0.8598
$keel_ecoli-0-1-4-6_vs_5$	0.7133	0.6274	0.7975	keel_vehicle1	0.6222	0.5778	0.5379
$keel_ecoli-0-1-4-7_vs_2-3$	0.6775	0.5880	0.6819	$keel_vehicle2$	0.9342	0.8250	0.8911
keel_ecoli-0-1-4-7_vs_5-6	0.7255	0.6738	0.7390	keel_vehicle3	0.6118	0.5628	0.5208
$keel_ecoli-0-1_vs_2-3-5$	0.7122	0.7057	0.7411	keel_vowel0	0.8755	0.6541	0.9679
keel_ecoli-0-1_vs_5	0.7081	0.7527	0.7958	keel_wisconsin	0.9494	0.9613	0.9515
$keel_ecoli-0-2-3-4_vs_5$	0.7255	0.7392	0.7766	keel_yeast-0-2-5-6_vs_3-7	0.5981	0.5238	0.5204
keel_ecoli-0-2-6-7_vs_3-5	0.7499	0.6200	0.7239	keel_yeast-0-2-5-7-9_vs_3	0.7806	0.7039	0.7425
$keel_ecoli-0-3-4-6_vs_5$	0.7531	0.7572	0.8248	keel_yeast-0-3-5-9_vs_7-8	0.3733	0.2801	0.3873
keel_ecoli-0-3-4-7_vs_5-6	0.6946	0.6592	0.7536	keel_yeast-0-5-6-7-9_vs_4	0.5351	0.4839	0.4829
$keel_ecoli-0-3-4_vs_5$	0.7214	0.7237	0.8265	keel_yeast-1-2-8-9_vs_7	0.1805	0.1465	0.1888
$keel_ecoli-0-4-6_vs_5$	0.7651	0.7424	0.8245	keel_yeast-1-4-5-8_vs_7	0.1562	0.1397	0.1586
$keel_ecoli-0-6-7_vs_3-5$	0.7033	0.6239	0.6639	keel_yeast-1_vs_7	0.3157	0.3008	0.2851
keel_ecoli-0-6-7_vs_5	0.7605	0.6464	0.6826	keel_yeast-2_vs_4	0.7224	0.7147	0.7540
$keel_ecoli-0_vs_1$	0.9716	0.9595	0.9543	keel_yeast-2_vs_8	0.5487	0.5490	0.4379
keel_ecoli1	0.7814	0.7538	0.7737	keel_yeast1	0.6037	0.5745	0.5288
keel_ecoli2	0.7825	0.6980	0.7994	keel_yeast3	0.7795	0.6691	0.7082
keel_ecoli3	0.6089	0.5542	0.6155	keel_yeast4	0.3739	0.2927	0.3366
keel_ecoli4	0.6841	0.7452	0.8054	keel_yeast5	0.7223	0.4648	0.6332
keel_glass-0-1-2-3_vs_4-5	0.8491	0.8070	0.8752	keel_yeast6	0.4488	0.3059	0.3422
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Table 21: AUC for RB-Boost and different base classifiers.

	Table :	21: AUC	for RB-E	Boost and different base classifiers.			
Dataset	J48	SVM	KNN	Dataset	J48	SVM	KNN
hddt_boundary	0.6985	0.7272	0.5629	keel_glass-0-1-4-6_vs_2	0.7555	0.7287	0.7158
$hddt_breast-y$	0.6259	0.6258	0.5941	$keel_glass-0-1-5_vs_2$	0.7472	0.6790	0.7238
$hddt_cam$	0.7593	0.7400	0.6810	$keel_glass-0-1-6_vs_2$	0.7376	0.6697	0.6505
$hddt_compustat$	0.9277	0.7502	0.8953	$keel_glass-0-1-6_vs_5$	0.9893	0.9884	0.9400
$hddt_{-}covtype$	0.9957	0.8983	0.9783	$keel_glass-0-4_vs_5$	0.9945	1.0000	0.9945
hddt_credit-g	0.7525	0.7473	0.6676	$keel_glass-0-6_vs_5$	0.9907	1.0000	0.9712
$hddt_{estate}$	0.6054	0.6104	0.5633	keel_glass0	0.8727	0.7736	0.8529
$hddt_german-numer$	0.7637	0.7598	0.6589	keel_glass1	0.8480	0.6519	0.8398
$hddt_heart-v$	0.7037	0.6664	0.6228	$keel_glass2$	0.7878	0.7226	0.7855
hddt_hypo	0.9909	0.9696	0.8886	$keel_glass4$	0.9532	0.9084	0.9677
$hddt_{ism}$	0.9140	0.8695	0.8747	keel_glass5	0.9864	0.9910	0.9620
$hddt_{letter}$	0.9999	0.9944	0.9996	keel_glass6	0.9574	0.9524	0.9446
$hddt_oil$	0.9261	0.8858	0.8040	keel_haberman	0.6833	0.6331	0.6059
hddt_optdigits	0.9998	0.9995	0.9997	keel_iris0	1.0000	1.0000	1.0000
$hddt_page$	0.9910	0.9311	0.9739	$keel_led7digit-0-2-4-5-6-$	0.9633	0.9555	0.9497
hddt_pendigits	0.9999	0.9981	0.9999	$keel_new-thyroid1$	0.9968	0.9980	0.9981
hddt_phoneme	0.9477	0.8218	0.9073	$keel_new-thyroid2$	0.9981	0.9978	0.9936
$hddt_PhosS$	0.7207	0.7114	0.5836	keel_page-blocks-1-3_vs_4	0.9997	0.9890	0.9997
$hddt_satimage$	0.9589	0.8233	0.9281	keel_page-blocks0	0.9899	0.9195	0.9724
$hddt_segment$	0.9999	0.9998	0.9973	keel_pima	0.8026	0.8047	0.7258
keel_abalone19	0.7216	0.8087	0.5800	$keel_segment0$	0.9997	0.9999	0.9981
keel_abalone9-18	0.8058	0.8288	0.7019	$keel_shuttle-c0-vs-c4$	1.0000	0.9967	0.9969
$keel_cleveland-0_vs_4$	0.9578	0.9529	0.9521	$keel_shuttle-c2-vs-c4$	1.0000	0.9667	0.9656
$keel_ecoli-0-1-3-7_vs_2-6$	0.9114	0.9444	0.8920	keel_vehicle0	0.9949	0.9933	0.9694
$keel_ecoli-0-1-4-6_vs_5$	0.9867	0.9258	0.9270	keel_vehicle1	0.8420	0.8352	0.7515
$keel_ecoli-0-1-4-7_vs_2-3$	0.9411	0.9077	0.9067	$keel_vehicle2$	0.9978	0.9875	0.9820
$keel_ecoli-0-1-4-7_vs_5-6$	0.9652	0.9436	0.9425	keel_vehicle3	0.8413	0.8122	0.7291
$keel_ecoli-0-1_vs_2-3-5$	0.9460	0.9217	0.9247	keel_vowel0	0.9995	0.9994	0.9998
keel_ecoli-0-1_vs_5	0.9847	0.9433	0.9301	keel_wisconsin	0.9929	0.9923	0.9842
$keel_ecoli-0-2-3-4_vs_5$	0.9827	0.9070	0.9534	keel_yeast-0-2-5-6_vs_3-7	0.8444	0.8184	0.8170
$keel_ecoli-0-2-6-7_vs_3-5$	0.9227	0.8742	0.8895	keel_yeast-0-2-5-7-9_vs_3	0.9445	0.9130	0.9322
$keel_ecoli-0-3-4-6_vs_5$	0.9810	0.8799	0.9096	keel_yeast-0-3-5-9_vs_7-8	0.7642	0.7724	0.7363
$keel_ecoli-0-3-4-7_vs_5-6$	0.9646	0.9209	0.9400	keel_yeast-0-5-6-7-9_vs_4	0.8838	0.8103	0.8153
keel_ecoli-0-3-4_vs_5	0.9808	0.8934	0.9417	keel_yeast-1-2-8-9_vs_7	0.7647	0.7715	0.7450
keel_ecoli-0-4-6_vs_5	0.9838	0.9127	0.9238	keel_yeast-1-4-5-8_vs_7	0.6831	0.6883	0.6625
keel_ecoli-0-6-7_vs_3-5	0.9201	0.8576	0.8915	keel_yeast-1_vs_7	0.7955	0.7938	0.7159
keel_ecoli-0-6-7_vs_5	0.9664	0.9067	0.9115	keel_yeast-2_vs_4	0.9716	0.9682	0.9171
$keel_ecoli-0_vs_1$	0.9883	0.9964	0.9844	keel_yeast-2_vs_8	0.8340	0.7858	0.7878
keel_ecoli1	0.9446	0.9548	0.9021	keel_yeast1	0.7741	0.7530	0.6970
keel_ecoli2	0.9618	0.9464	0.9420	keel_yeast3	0.9635	0.9408	0.9172
keel_ecoli3	0.9228	0.9194	0.8505	keel_yeast4	0.9145	0.8364	0.8683
keel_ecoli4	0.9817	0.9908	0.9735	keel_yeast5	0.9788	0.9835	0.9652
keel_glass-0-1-2-3_vs_4-5	0.9767	0.9703	0.9627	keel_yeast6	0.8975	0.8871	0.8354
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Table 22: F-Measure for RB-Boost and different base classifiers.

Dataset	J48	SVM	KNN	Dataset	J48	SVM	KNN
hddt_boundary	0.0444	0.1386	0.0741	keel_glass-0-1-4-6_vs_2	0.2409	0.0545	0.2769
hddt_breast-y	0.4106	0.4243	0.3975	$keel_glass-0-1-5_vs_2$	0.2567	0.0333	0.2503
$hddt_{cam}$	0.1294	0.2907	0.1562	$keel_glass-0-1-6_vs_2$	0.2047	0.0154	0.2359
$hddt_compustat$	0.4425	0.0673	0.5273	$keel_glass-0-1-6_vs_5$	0.6752	0.8192	0.7342
$hddt_covtype$	0.9022	0.0296	0.8633	$keel_glass-0-4_vs_5$	0.8696	0.8889	0.8894
hddt_credit-g	0.5092	0.5359	0.4826	$keel_glass-0-6_vs_5$	0.7560	1.0000	0.8809
$hddt_{estate}$	0.0659	0.0221	0.1863	$keel_glass0$	0.7016	0.3966	0.7130
$hddt_german-numer$	0.5239	0.5561	0.4470	keel_glass1	0.6804	0.3328	0.6907
$hddt_heart-v$	0.4160	0.4507	0.3819	$keel_glass2$	0.2473	0.0472	0.3023
$hddt_hypo$	0.8868	0.7561	0.6293	$keel_glass4$	0.5851	0.6223	0.6428
hddt_ism	0.6795	0.5832	0.5893	keel_glass5	0.7095	0.8105	0.6682
$hddt_letter$	0.9771	0.8753	0.9886	keel_glass6	0.8540	0.8241	0.8587
hddt_oil	0.5051	0.4991	0.4678	keel_haberman	0.3168	0.2163	0.3661
hddt_optdigits	0.9935	0.9855	0.9980	keel_iris0	0.9813	1.0000	1.0000
hddt_page	0.8767	0.6919	0.7948	keel_led7digit-0-2-4-5-6-	0.7703	0.7790	0.7617
hddt_pendigits	0.9868	0.9451	0.9898	keel_new-thyroid1	0.9250	0.9583	0.9510
hddt_phoneme	0.8132	0.5858	0.7856	keel_new-thyroid2	0.9420	0.9498	0.9461
hddt_PhosS	0.0135	0.1925	0.1020	keel_page-blocks-1-3_vs_4	0.9756	0.7578	0.9788
hddt_satimage	0.6808	0.0749	0.6646	keel_page-blocks0	0.8674	0.6851	0.7909
hddt_segment	0.9912	0.9918	0.9757	keel_pima	0.6225	0.6360	0.5553
keel_abalone19	0.0462	0.0000	0.0253	keel_segment0	0.9860	0.9900	0.9808
keel_abalone9-18	0.3633	0.4617	0.2781	keel_shuttle-c0-vs-c4	1.0000	0.9959	0.9959
keel_cleveland-0_vs_4	0.5907	0.5674	0.5635	keel_shuttle-c2-vs-c4	1.0000	0.9600	0.8438
keel_ecoli-0-1-3-7_vs_2-6	0.5171	0.5652	0.5089	keel_vehicle0	0.9235	0.9351	0.8350
$keel_ecoli-0-1-4-6_vs_5$	0.7969	0.8127	0.8339	keel_vehicle1	0.5497	0.5651	0.4871
keel_ecoli-0-1-4-7_vs_2-3	0.6816	0.7448	0.6946	keel_vehicle2	0.9670	0.9217	0.8983
keel_ecoli-0-1-4-7_vs_5-6	0.7515	0.8147	0.7637	keel_vehicle3	0.5464	0.4891	0.4566
keel_ecoli-0-1_vs_2-3-5	0.7308	0.7336	0.7445	keel_vowel0	0.9712	0.9681	0.9910
keel_ecoli-0-1_vs_5	0.7774	0.7853	0.8101	keel_wisconsin	0.9501	0.9477	0.9414
keel_ecoli-0-2-3-4_vs_5	0.7756	0.7764	0.7868	keel_yeast-0-2-5-6_vs_3-7	0.5842	0.6271	0.5762
keel_ecoli-0-2-6-7_vs_3-5	0.7556	0.7552	0.7198	keel_yeast-0-2-5-7-9_vs_3	0.7972	0.7948	0.7794
keel_ecoli-0-3-4-6_vs_5	0.7846	0.7690	0.8290	keel_yeast-0-3-5-9_vs_7-8	0.3716	0.3340	0.4210
keel_ecoli-0-3-4-7_vs_5-6	0.8038	0.7689	0.7716	keel_yeast-0-5-6-7-9_vs_4	0.4783	0.5113	0.4558
keel_ecoli-0-3-4_vs_5	0.7629	0.7580	0.7895	keel_yeast-1-2-8-9_vs_7	0.2420	0.1581	0.2487
keel_ecoli-0-4-6_vs_5	0.7633	0.8077	0.8461	keel_yeast-1-4-5-8_vs_7	0.1029	0.0000	0.1943
keel_ecoli-0-6-7_vs_3-5	0.7033 0.7102	0.7531	0.6902	keel_yeast-1-vs_7	0.1023 0.3731	0.2615	0.1345
keel_ecoli-0-6-7_vs_5	0.7102 0.7972	0.7331 0.7399	0.0902 0.7096	keel_yeast-2_vs_4	0.7524	0.2013 0.7417	0.3800 0.7474
keel_ecoli-0_vs_1	0.1312	0.7599	0.7030	keel_yeast-2_vs_8	0.7524 0.5873	0.6309	0.5567
keel_ecoli1	0.7663	0.9092 0.7760	0.7310	keel_yeast1	0.5336	0.0303 0.3031	0.3307
keel_ecoli2	0.7003	0.7733	0.7310	keel_yeast3	0.7537	0.3031 0.7481	0.4843 0.6881
keel_ecoli3	0.5573	0.7733 0.4261	0.8042 0.4717	keel_yeast4	0.7937 0.3929	0.7461 0.3745	0.3980
keel_ecoli4	0.5373 0.7321	0.4201 0.8623	0.4717	keel_yeast5	0.3929 0.7132	0.5745 0.5589	0.3980 0.7074
keel_glass-0-1-2-3_vs_4-5	0.7321	0.8523 0.8598	0.8669	keel_yeast6	0.7132 0.4895	0.3389 0.4331	0.7074
rcci_gtass-0-1-2-3_vs_4-3	0.0455	0.0090	0.0009	keei_yeasiu	0.4090	0.4551	0.4414