Dataset	GNB	kNN	SVC	DTC	MLP
breastcan	0.959 ± 0.017	0.968 ± 0.022	0.965 ± 0.023	0.936 ± 0.025	0.958 ± 0.041
wisconsin	0.954 ± 0.018	0.947 ± 0.033	0.953 ± 0.023	0.918 ± 0.023	0.944 ± 0.038
ionosphere	0.866 ± 0.028	0.826 ± 0.038	0.940 ± 0.027	0.860 ± 0.072	0.920 ± 0.041
soy bean	1.000 ± 0.000	0.978 ± 0.044	1.000 ± 0.000	1.000 ± 0.000	1.000 ± 0.000
breast can coimbra	0.554 ± 0.108	0.480 ± 0.100	0.476 ± 0.103	0.587 ± 0.081	0.550 ± 0.078
sonar	0.643 ± 0.233	0.523 ± 0.120	0.558 ± 0.167	0.655 ± 0.089	0.641 ± 0.132
digit	1.000 ± 0.000	0.991 ± 0.001	0.953 ± 0.004	1.000 ± 0.000	0.993 ± 0.002
balance	0.732 ± 0.147	0.738 ± 0.039	0.805 ± 0.097	0.612 ± 0.110	0.917 ± 0.046
monkone	0.637 ± 0.099	0.810 ± 0.101	0.812 ± 0.064	1.000 ± 0.000	0.812 ± 0.123
heart	0.841 ± 0.025	0.681 ± 0.039	0.678 ± 0.038	0.748 ± 0.064	0.763 ± 0.059
australian	0.787 ± 0.016	0.690 ± 0.037	0.678 ± 0.033	0.800 ± 0.050	0.753 ± 0.048
bank note	0.838 ± 0.033	1.000 ± 0.000	1.000 ± 0.000	0.980 ± 0.006	1.000 ± 0.000
spambase	0.780 ± 0.074	0.820 ± 0.038	0.832 ± 0.035	0.885 ± 0.051	0.793 ± 0.114
liver	0.554 ± 0.064	0.667 ± 0.042	0.690 ± 0.042	0.658 ± 0.045	0.710 ± 0.009
wave form	0.810 ± 0.008	0.819 ± 0.018	0.865 ± 0.011	0.751 ± 0.011	0.846 ± 0.015
pop failures	0.944 ± 0.008	0.911 ± 0.007	0.915 ± 0.003	0.909 ± 0.027	0.915 ± 0.003
hayes	0.700 ± 0.051	0.539 ± 0.074	0.812 ± 0.059	0.838 ± 0.057	0.637 ± 0.185
german	0.727 ± 0.040	0.686 ± 0.019	0.721 ± 0.008	0.685 ± 0.034	0.780 ± 0.027
iris	0.953 ± 0.026	0.973 ± 0.024	0.980 ± 0.016	0.960 ± 0.032	0.967 ± 0.042
wine	0.956 ± 0.036	0.686 ± 0.044	0.720 ± 0.070	0.865 ± 0.036	0.509 ± 0.147
diabetes	0.751 ± 0.018	0.690 ± 0.029	0.686 ± 0.028	0.706 ± 0.042	0.602 ± 0.077
yeast3	0.296 ± 0.071	0.947 ± 0.010	0.929 ± 0.006	0.937 ± 0.022	0.935 ± 0.011
cryotherapy	0.845 ± 0.020	0.723 ± 0.027	0.843 ± 0.026	0.911 ± 0.044	0.777 ± 0.107
breast tissue	0.637 ± 0.100	0.510 ± 0.061	0.529 ± 0.036	0.689 ± 0.022	0.301 ± 0.143
monkthree	0.913 ± 0.048	0.969 ± 0.012	0.964 ± 0.019	0.953 ± 0.008	0.942 ± 0.023

Table 1: Results for ACC metric

Dataset	GNB	kNN	SVC	DTC	MLP
breastcan	0.902 ± 0.041	0.928 ± 0.048	0.917 ± 0.051	0.862 ± 0.047	0.909 ± 0.083
wisconsin	0.890 ± 0.044	0.884 ± 0.071	0.889 ± 0.050	0.822 ± 0.042	0.881 ± 0.080
ionosphere	0.738 ± 0.048	0.679 ± 0.072	0.888 ± 0.051	0.729 ± 0.121	0.853 ± 0.079
breast can coimbra	0.611 ± 0.071	0.549 ± 0.057	0.534 ± 0.049	0.605 ± 0.059	0.580 ± 0.028
sonar	0.705 ± 0.113	0.562 ± 0.044	0.589 ± 0.101	0.637 ± 0.076	0.646 ± 0.110
monkone	0.595 ± 0.070	0.765 ± 0.121	0.781 ± 0.093	1.000 ± 0.000	0.785 ± 0.138
heart	0.758 ± 0.038	0.572 ± 0.038	0.569 ± 0.037	0.644 ± 0.072	0.668 ± 0.069
australian	0.703 ± 0.025	0.582 ± 0.036	0.569 ± 0.035	0.703 ± 0.057	0.650 ± 0.051
bank note	0.756 ± 0.043	1.000 ± 0.000	1.000 ± 0.000	0.964 ± 0.009	1.000 ± 0.000
spambase	0.648 ± 0.070	0.693 ± 0.059	0.708 ± 0.053	0.792 ± 0.079	0.684 ± 0.135
liver	0.628 ± 0.036	0.663 ± 0.029	0.674 ± 0.034	0.675 ± 0.031	0.703 ± 0.012
pop failures	0.944 ± 0.006	0.915 ± 0.003	0.915 ± 0.003	0.950 ± 0.014	0.916 ± 0.005
german	0.451 ± 0.045	0.353 ± 0.016	0.356 ± 0.016	0.386 ± 0.034	0.500 ± 0.041
diabetes	0.533 ± 0.026	0.454 ± 0.030	0.430 ± 0.041	0.483 ± 0.043	0.419 ± 0.037
yeast3	0.134 ± 0.012	0.589 ± 0.070	0.432 ± 0.053	0.561 ± 0.102	0.485 ± 0.073
cryotherapy	0.795 ± 0.034	0.692 ± 0.028	0.797 ± 0.036	0.887 ± 0.061	0.763 ± 0.125
monkthree	0.916 ± 0.047	0.957 ± 0.017	0.958 ± 0.027	0.943 ± 0.020	0.936 ± 0.032

Table 2: Results for APC metric

Dataset	GNB	kNN	SVC	DTC	MLP
breastcan	0.962 ± 0.014	0.965 ± 0.027	0.965 ± 0.025	0.925 ± 0.036	0.950 ± 0.053
wisconsin	0.957 ± 0.013	0.938 ± 0.045	0.952 ± 0.027	0.906 ± 0.038	0.931 ± 0.049
ionosphere	0.834 ± 0.044	0.767 ± 0.051	0.920 ± 0.038	0.843 ± 0.086	0.893 ± 0.053
breast can coimbra	0.575 ± 0.108	0.473 ± 0.109	0.448 ± 0.095	0.585 ± 0.081	0.541 ± 0.060
sonar	0.652 ± 0.232	0.525 ± 0.119	0.557 ± 0.166	0.653 ± 0.087	0.642 ± 0.134
monkone	0.637 ± 0.099	0.810 ± 0.101	0.812 ± 0.064	1.000 ± 0.000	0.812 ± 0.123
heart	0.837 ± 0.024	0.672 ± 0.043	0.669 ± 0.039	0.746 ± 0.066	0.760 ± 0.049
australian	0.772 ± 0.015	0.677 ± 0.037	0.661 ± 0.038	0.798 ± 0.052	0.749 ± 0.051
bank note	0.833 ± 0.034	1.000 ± 0.000	1.000 ± 0.000	0.980 ± 0.006	1.000 ± 0.000
spambase	0.813 ± 0.064	0.804 ± 0.036	0.817 ± 0.034	0.882 ± 0.047	0.815 ± 0.091
liver	0.576 ± 0.059	0.642 ± 0.044	0.659 ± 0.053	0.655 ± 0.046	0.698 ± 0.014
pop failures	0.682 ± 0.048	0.498 ± 0.004	0.500 ± 0.000	0.712 ± 0.091	0.510 ± 0.020
german	0.694 ± 0.037	0.579 ± 0.016	0.563 ± 0.017	0.625 ± 0.039	0.710 ± 0.023
diabetes	0.713 ± 0.023	0.638 ± 0.030	0.601 ± 0.041	0.670 ± 0.035	0.606 ± 0.046
yeast3	0.597 ± 0.041	0.828 ± 0.024	0.699 ± 0.026	0.846 ± 0.039	0.753 ± 0.025
cryotherapy	0.838 ± 0.025	0.718 ± 0.026	0.837 ± 0.027	0.911 ± 0.045	0.778 ± 0.113
monkthree	0.916 ± 0.046	0.969 ± 0.012	0.964 ± 0.019	0.954 ± 0.008	0.943 ± 0.023

Table 3: Results for AUC metric

Dataset	GNB	kNN	SVC	DTC	MLP
breastcan	0.962 ± 0.014	0.965 ± 0.027	0.965 ± 0.025	0.925 ± 0.036	0.950 ± 0.053
wisconsin	0.957 ± 0.013	0.938 ± 0.045	0.952 ± 0.027	0.906 ± 0.038	0.931 ± 0.049
ionosphere	0.834 ± 0.044	0.767 ± 0.051	0.920 ± 0.038	0.843 ± 0.086	0.893 ± 0.053
soy be an	1.000 ± 0.000	0.975 ± 0.049	1.000 ± 0.000	1.000 ± 0.000	1.000 ± 0.000
breast can coimbra	0.575 ± 0.108	0.473 ± 0.109	0.448 ± 0.095	0.585 ± 0.081	0.541 ± 0.060
sonar	0.652 ± 0.232	0.525 ± 0.119	0.557 ± 0.166	0.653 ± 0.087	0.642 ± 0.134
digit	1.000 ± 0.000	0.991 ± 0.001	0.954 ± 0.004	1.000 ± 0.000	0.993 ± 0.002
balance	0.530 ± 0.107	0.551 ± 0.025	0.582 ± 0.071	0.507 ± 0.043	0.757 ± 0.113
monkone	0.637 ± 0.099	0.810 ± 0.101	0.812 ± 0.064	1.000 ± 0.000	0.812 ± 0.123
heart	0.837 ± 0.024	0.672 ± 0.043	0.669 ± 0.039	0.746 ± 0.066	0.760 ± 0.049
australian	0.772 ± 0.015	0.677 ± 0.037	0.661 ± 0.038	0.798 ± 0.052	0.749 ± 0.051
bank note	0.833 ± 0.034	1.000 ± 0.000	1.000 ± 0.000	0.980 ± 0.006	1.000 ± 0.000
spambase	0.813 ± 0.064	0.804 ± 0.036	0.817 ± 0.034	0.882 ± 0.047	0.815 ± 0.091
liver	0.576 ± 0.059	0.642 ± 0.044	0.659 ± 0.053	0.655 ± 0.046	0.698 ± 0.014
wave form	0.809 ± 0.008	0.819 ± 0.018	0.865 ± 0.011	0.751 ± 0.011	0.846 ± 0.015
pop failures	0.682 ± 0.048	0.498 ± 0.004	0.500 ± 0.000	0.712 ± 0.091	0.510 ± 0.020
hayes	0.753 ± 0.042	0.514 ± 0.079	0.846 ± 0.049	0.866 ± 0.049	0.648 ± 0.178
german	0.694 ± 0.037	0.579 ± 0.016	0.563 ± 0.017	0.625 ± 0.039	0.710 ± 0.023
iris	0.953 ± 0.026	0.973 ± 0.024	0.980 ± 0.016	0.960 ± 0.032	0.967 ± 0.042
wine	0.961 ± 0.030	0.670 ± 0.049	0.720 ± 0.067	0.867 ± 0.042	0.486 ± 0.139
diabetes	0.713 ± 0.023	0.638 ± 0.030	0.601 ± 0.041	0.670 ± 0.035	0.606 ± 0.046
yeast3	0.597 ± 0.041	0.828 ± 0.024	0.699 ± 0.026	0.846 ± 0.039	0.753 ± 0.025
cryotherapy	0.838 ± 0.025	0.718 ± 0.026	0.837 ± 0.027	0.911 ± 0.045	0.778 ± 0.113
breast tissue	0.617 ± 0.104	0.469 ± 0.062	0.482 ± 0.021	0.674 ± 0.034	0.267 ± 0.135
monkthree	0.916 ± 0.046	0.969 ± 0.012	0.964 ± 0.019	0.954 ± 0.008	0.943 ± 0.023

Table 4: Results for BAC metric

Dataset	GNB	kNN	SVC	DTC	MLP
breastcan	0.041 ± 0.017	0.032 ± 0.022	0.035 ± 0.023	0.064 ± 0.025	0.042 ± 0.041
wisconsin	0.046 ± 0.018	0.053 ± 0.033	0.047 ± 0.023	0.082 ± 0.023	0.056 ± 0.038
ionosphere	0.134 ± 0.028	0.174 ± 0.038	0.060 ± 0.027	0.140 ± 0.072	0.080 ± 0.041
breast can coimbra	0.446 ± 0.108	0.520 ± 0.100	0.524 ± 0.103	0.413 ± 0.081	0.450 ± 0.078
sonar	0.357 ± 0.233	0.477 ± 0.120	0.442 ± 0.167	0.345 ± 0.089	0.359 ± 0.132
monkone	0.363 ± 0.099	0.190 ± 0.101	0.188 ± 0.064	0.000 ± 0.000	0.187 ± 0.123
heart	0.159 ± 0.025	0.319 ± 0.039	0.322 ± 0.038	0.252 ± 0.064	0.237 ± 0.059
australian	0.213 ± 0.016	0.310 ± 0.037	0.322 ± 0.033	0.200 ± 0.050	0.247 ± 0.048
bank note	0.162 ± 0.033	0.000 ± 0.000	0.000 ± 0.000	0.020 ± 0.006	0.000 ± 0.000
spambase	0.220 ± 0.074	0.180 ± 0.038	0.168 ± 0.035	0.115 ± 0.051	0.207 ± 0.114
liver	0.446 ± 0.064	0.333 ± 0.042	0.310 ± 0.042	0.342 ± 0.045	0.290 ± 0.009
pop failures	0.056 ± 0.008	0.089 ± 0.007	0.085 ± 0.003	0.091 ± 0.027	0.085 ± 0.003
german	0.273 ± 0.040	0.314 ± 0.019	0.279 ± 0.007	0.315 ± 0.034	0.220 ± 0.027
diabetes	0.249 ± 0.018	0.310 ± 0.029	0.314 ± 0.028	0.294 ± 0.042	0.398 ± 0.077
yeast 3	0.704 ± 0.071	0.053 ± 0.010	0.071 ± 0.006	0.063 ± 0.022	0.065 ± 0.011
cryotherapy	0.155 ± 0.020	0.277 ± 0.027	0.157 ± 0.026	0.089 ± 0.044	0.223 ± 0.107
monkthree	0.087 ± 0.048	0.031 ± 0.012	0.036 ± 0.019	0.047 ± 0.008	0.058 ± 0.023

Table 5: Results for BSL metric

Dataset	GNB	kNN	SVC	DTC	MLP
breastcan	0.912 ± 0.036	0.929 ± 0.049	0.924 ± 0.050	0.856 ± 0.060	0.905 ± 0.095
wisconsin	0.901 ± 0.038	0.881 ± 0.079	0.896 ± 0.052	0.817 ± 0.056	0.873 ± 0.090
ion osphere	0.695 ± 0.075	0.583 ± 0.100	0.865 ± 0.064	0.691 ± 0.162	0.818 ± 0.098
soy be an	1.000 ± 0.000	0.969 ± 0.061	1.000 ± 0.000	1.000 ± 0.000	1.000 ± 0.000
breast can coimbra	0.142 ± 0.209 -	-0.057 ± 0.219 -	-0.106 ± 0.199	0.169 ± 0.166	0.086 ± 0.119
sonar	0.300 ± 0.453	0.051 ± 0.235	0.115 ± 0.333	0.307 ± 0.175	0.282 ± 0.265
digit	1.000 ± 0.000	0.990 ± 0.002	0.948 ± 0.004	1.000 ± 0.000	0.992 ± 0.002
balance	0.505 ± 0.271	0.532 ± 0.064	0.641 ± 0.175	0.394 ± 0.132	0.850 ± 0.082
monkone	0.273 ± 0.198	0.621 ± 0.202	0.625 ± 0.129	1.000 ± 0.000	0.625 ± 0.246
heart	0.676 ± 0.050	0.347 ± 0.086	0.341 ± 0.079	0.491 ± 0.132	0.522 ± 0.108
australian	0.558 ± 0.031	0.361 ± 0.075	0.329 ± 0.076	0.595 ± 0.103	0.499 ± 0.100
bank note	0.670 ± 0.068	1.000 ± 0.000	1.000 ± 0.000	0.960 ± 0.012	1.000 ± 0.000
spambase	0.580 ± 0.128	0.618 ± 0.078	0.643 ± 0.072	0.761 ± 0.102	0.603 ± 0.202
liver	0.144 ± 0.109	0.294 ± 0.091	0.330 ± 0.108	0.306 ± 0.092	0.399 ± 0.024
wave form	0.715 ± 0.012	0.729 ± 0.027	0.797 ± 0.017	0.626 ± 0.017	0.770 ± 0.023
pop failures	0.499 ± 0.109	-0.006 ± 0.012	0.000 ± 0.000	0.422 ± 0.180	0.031 ± 0.062
hayes	0.538 ± 0.079	0.247 ± 0.124	0.709 ± 0.088	0.747 ± 0.089	0.443 ± 0.266
german	0.375 ± 0.079	0.174 ± 0.038	0.158 ± 0.040	0.249 ± 0.080	0.447 ± 0.056
iris	0.930 ± 0.039	0.960 ± 0.037	0.970 ± 0.024	0.940 ± 0.048	0.950 ± 0.063
wine	0.933 ± 0.054	0.521 ± 0.069	0.580 ± 0.103	0.796 ± 0.055	0.247 ± 0.223
diabetes	0.437 ± 0.044	0.289 ± 0.063	0.225 ± 0.088	0.346 ± 0.079	0.198 ± 0.089
yeast 3	0.053 ± 0.024	0.709 ± 0.055	0.523 ± 0.051	0.688 ± 0.094	0.603 ± 0.063
cryotherapy	0.684 ± 0.043	0.439 ± 0.052	0.682 ± 0.054	0.821 ± 0.090	0.551 ± 0.221
breast tissue	0.563 ± 0.120	0.405 ± 0.073	0.423 ± 0.041	0.624 ± 0.028	0.139 ± 0.177
monkthree	0.827 ± 0.096	0.939 ± 0.024	0.928 ± 0.039	0.906 ± 0.017	0.885 ± 0.046

Table 6: Results for CKS metric

Dataset	GNB	kNN	SVC	DTC	MLP
breastcan	0.944 ± 0.022	0.954 ± 0.032	0.951 ± 0.032	0.905 ± 0.043	0.936 ± 0.065
wisconsin	0.936 ± 0.023	0.920 ± 0.056	0.932 ± 0.034	0.877 ± 0.041	0.914 ± 0.063
ionosphere	0.790 ± 0.063	0.692 ± 0.082	0.909 ± 0.045	0.797 ± 0.108	0.874 ± 0.070
breast can coimbra	0.455 ± 0.168	0.532 ± 0.075	0.591 ± 0.106	0.608 ± 0.096	0.539 ± 0.272
sonar	0.599 ± 0.281	0.521 ± 0.137	0.572 ± 0.184	0.673 ± 0.102	0.656 ± 0.131
monkone	0.617 ± 0.146	0.807 ± 0.104	0.807 ± 0.055	1.000 ± 0.000	0.777 ± 0.169
heart	0.817 ± 0.026	0.616 ± 0.067	0.618 ± 0.056	0.718 ± 0.076	0.737 ± 0.038
australian	0.726 ± 0.019	0.617 ± 0.045	0.576 ± 0.074	0.774 ± 0.063	0.716 ± 0.065
bank note	0.812 ± 0.040	1.000 ± 0.000	1.000 ± 0.000	0.978 ± 0.007	1.000 ± 0.000
spambase	0.780 ± 0.056	0.762 ± 0.045	0.779 ± 0.041	0.858 ± 0.055	0.790 ± 0.091
liver	0.523 ± 0.103	0.734 ± 0.036	0.762 ± 0.024	0.694 ± 0.046	0.756 ± 0.010
pop failures	0.970 ± 0.004	0.953 ± 0.003	0.956 ± 0.001	0.950 ± 0.015	0.955 ± 0.001
german	0.574 ± 0.048	0.371 ± 0.030	0.260 ± 0.058	0.474 ± 0.058	0.595 ± 0.036
diabetes	0.621 ± 0.032	0.512 ± 0.044	0.411 ± 0.088	0.568 ± 0.045	0.509 ± 0.067
yeast3	0.236 ± 0.019	0.738 ± 0.050	0.555 ± 0.050	0.723 ± 0.081	0.637 ± 0.057
cryotherapy	0.863 ± 0.015	0.729 ± 0.074	0.859 ± 0.034	0.915 ± 0.043	0.786 ± 0.095
monkthree	0.907 ± 0.054	0.970 ± 0.011	0.964 ± 0.019	0.954 ± 0.008	0.943 ± 0.022

Table 7: Results for F1 metric

Dataset	GNB	kNN	SVC	DTC	MLP
breastcan	0.041 ± 0.017	0.032 ± 0.022	0.035 ± 0.023	0.064 ± 0.025	0.042 ± 0.041
wisconsin	0.046 ± 0.018	0.053 ± 0.033	0.047 ± 0.023	0.082 ± 0.023	0.056 ± 0.038
ionosphere	0.134 ± 0.028	0.174 ± 0.038	0.060 ± 0.027	0.140 ± 0.072	0.080 ± 0.041
soy be an	0.000 ± 0.000	0.022 ± 0.044	0.000 ± 0.000	0.000 ± 0.000	0.000 ± 0.000
breast can coimbra	0.446 ± 0.108	0.520 ± 0.100	0.524 ± 0.103	0.413 ± 0.081	0.450 ± 0.078
sonar	0.357 ± 0.233	0.477 ± 0.120	0.442 ± 0.167	0.345 ± 0.089	0.359 ± 0.132
digit	0.000 ± 0.000	0.009 ± 0.001	0.047 ± 0.004	0.000 ± 0.000	0.007 ± 0.002
balance	0.268 ± 0.147	0.262 ± 0.039	0.195 ± 0.097	0.388 ± 0.110	0.083 ± 0.046
monkone	0.363 ± 0.099	0.190 ± 0.101	0.188 ± 0.064	0.000 ± 0.000	0.187 ± 0.123
heart	0.159 ± 0.025	0.319 ± 0.039	0.322 ± 0.038	0.252 ± 0.064	0.237 ± 0.059
australian	0.213 ± 0.016	0.310 ± 0.037	0.322 ± 0.033	0.200 ± 0.050	0.247 ± 0.048
bank note	0.162 ± 0.033	0.000 ± 0.000	0.000 ± 0.000	0.020 ± 0.006	0.000 ± 0.000
spambase	0.220 ± 0.074	0.180 ± 0.038	0.168 ± 0.035	0.115 ± 0.051	0.207 ± 0.114
liver	0.446 ± 0.064	0.333 ± 0.042	0.310 ± 0.042	0.342 ± 0.045	0.290 ± 0.009
wave form	0.190 ± 0.008	0.181 ± 0.018	0.135 ± 0.011	0.249 ± 0.011	0.154 ± 0.015
pop failures	0.056 ± 0.008	0.089 ± 0.007	0.085 ± 0.003	0.091 ± 0.027	0.085 ± 0.003
hayes	0.300 ± 0.051	0.461 ± 0.074	0.188 ± 0.059	0.162 ± 0.057	0.363 ± 0.185
german	0.273 ± 0.040	0.314 ± 0.019	0.279 ± 0.007	0.315 ± 0.034	0.220 ± 0.027
iris	0.047 ± 0.026	0.027 ± 0.024	0.020 ± 0.016	0.040 ± 0.032	0.033 ± 0.042
wine	0.044 ± 0.036	0.314 ± 0.044	0.280 ± 0.070	0.135 ± 0.036	0.491 ± 0.147
diabetes	0.249 ± 0.018	0.310 ± 0.029	0.314 ± 0.028	0.294 ± 0.042	0.398 ± 0.077
yeast3	0.704 ± 0.071	0.053 ± 0.010	0.071 ± 0.006	0.063 ± 0.022	0.065 ± 0.011
cryotherapy	0.155 ± 0.020	0.277 ± 0.027	0.157 ± 0.026	0.089 ± 0.044	0.223 ± 0.107
breast tissue	0.363 ± 0.100	0.490 ± 0.061	0.471 ± 0.036	0.311 ± 0.022	0.699 ± 0.143
monkthree	0.087 ± 0.048	0.031 ± 0.012	0.036 ± 0.019	0.047 ± 0.008	0.058 ± 0.023

Table 8: Results for HaL metric

Dataset	GNB	kNN	SVC	DTC	MLP
breastcan	0.691 ± 0.017	0.682 ± 0.022	0.685 ± 0.022	0.714 ± 0.025	0.692 ± 0.041
wisconsin	0.702 ± 0.018	0.710 ± 0.034	0.704 ± 0.024	0.738 ± 0.022	0.712 ± 0.038
ionosphere	0.775 ± 0.029	0.815 ± 0.039	0.701 ± 0.028	0.781 ± 0.072	0.721 ± 0.040
breast can coimbra	0.894 ± 0.117	0.968 ± 0.098	0.972 ± 0.110	0.861 ± 0.089	0.899 ± 0.079
sonar	0.823 ± 0.231	0.943 ± 0.118	0.908 ± 0.165	0.811 ± 0.091	0.825 ± 0.133
monkone	0.863 ± 0.099	0.690 ± 0.101	0.688 ± 0.064	0.500 ± 0.000	0.688 ± 0.123
heart	0.715 ± 0.025	0.874 ± 0.039	0.878 ± 0.038	0.807 ± 0.064	0.793 ± 0.059
australian	0.768 ± 0.016	0.865 ± 0.037	0.877 ± 0.034	0.755 ± 0.049	0.802 ± 0.048
bank note	0.717 ± 0.033	0.555 ± 0.000	0.555 ± 0.000	0.575 ± 0.006	0.555 ± 0.000
spambase	0.826 ± 0.074	0.785 ± 0.038	0.774 ± 0.035	0.721 ± 0.051	0.813 ± 0.114
liver	0.867 ± 0.064	0.754 ± 0.042	0.730 ± 0.042	0.762 ± 0.045	0.710 ± 0.009
pop failures	0.141 ± 0.007	0.174 ± 0.008	0.170 ± 0.006	0.176 ± 0.027	0.170 ± 0.006
german	0.973 ± 0.040	1.014 ± 0.019	0.979 ± 0.008	1.015 ± 0.034	0.920 ± 0.027
diabetes	0.900 ± 0.017	0.961 ± 0.030	0.965 ± 0.030	0.945 ± 0.040	1.049 ± 0.077
yeast 3	1.594 ± 0.072	0.943 ± 0.010	0.961 ± 0.007	0.953 ± 0.023	0.956 ± 0.011
cryotherapy	0.622 ± 0.020	0.744 ± 0.029	0.623 ± 0.025	0.556 ± 0.055	0.690 ± 0.116
monkthree	0.567 ± 0.048	0.511 ± 0.012	0.516 ± 0.019	0.527 ± 0.009	0.538 ± 0.022

Table 9: Results for HiL metric

Dataset	GNB	kNN	SVC	DTC	MLP
breastcan	0.959 ± 0.017	0.968 ± 0.022	0.965 ± 0.023	0.936 ± 0.025	0.958 ± 0.041
wisconsin	0.954 ± 0.018	0.947 ± 0.033	0.953 ± 0.023	0.918 ± 0.023	0.944 ± 0.038
ionosphere	0.866 ± 0.028	0.826 ± 0.038	0.940 ± 0.027	0.860 ± 0.072	0.920 ± 0.041
soy bean	1.000 ± 0.000	0.978 ± 0.044	1.000 ± 0.000	1.000 ± 0.000	1.000 ± 0.000
breast can coimbra	0.554 ± 0.108	0.480 ± 0.100	0.476 ± 0.103	0.587 ± 0.081	0.550 ± 0.078
sonar	0.643 ± 0.233	0.523 ± 0.120	0.558 ± 0.167	0.655 ± 0.089	0.641 ± 0.132
digit	1.000 ± 0.000	0.991 ± 0.001	0.953 ± 0.004	1.000 ± 0.000	0.993 ± 0.002
balance	0.732 ± 0.147	0.738 ± 0.039	0.805 ± 0.097	0.612 ± 0.110	0.917 ± 0.046
monkone	0.637 ± 0.099	0.810 ± 0.101	0.812 ± 0.064	1.000 ± 0.000	0.812 ± 0.123
heart	0.841 ± 0.025	0.681 ± 0.039	0.678 ± 0.038	0.748 ± 0.064	0.763 ± 0.059
australian	0.787 ± 0.016	0.690 ± 0.037	0.678 ± 0.033	0.800 ± 0.050	0.753 ± 0.048
bank note	0.838 ± 0.033	1.000 ± 0.000	1.000 ± 0.000	0.980 ± 0.006	1.000 ± 0.000
spambase	0.780 ± 0.074	0.820 ± 0.038	0.832 ± 0.035	0.885 ± 0.051	0.793 ± 0.114
liver	0.554 ± 0.064	0.667 ± 0.042	0.690 ± 0.042	0.658 ± 0.045	0.710 ± 0.009
wave form	0.810 ± 0.008	0.819 ± 0.018	0.865 ± 0.011	0.751 ± 0.011	0.846 ± 0.015
pop failures	0.944 ± 0.008	0.911 ± 0.007	0.915 ± 0.003	0.909 ± 0.027	0.915 ± 0.003
hayes	0.700 ± 0.051	0.539 ± 0.074	0.812 ± 0.059	0.838 ± 0.057	0.637 ± 0.185
german	0.727 ± 0.040	0.686 ± 0.019	0.721 ± 0.008	0.685 ± 0.034	0.780 ± 0.027
iris	0.953 ± 0.026	0.973 ± 0.024	0.980 ± 0.016	0.960 ± 0.032	0.967 ± 0.042
wine	0.956 ± 0.036	0.686 ± 0.044	0.720 ± 0.070	0.865 ± 0.036	0.509 ± 0.147
diabetes	0.751 ± 0.018	0.690 ± 0.029	0.686 ± 0.028	0.706 ± 0.042	0.602 ± 0.077
yeast3	0.296 ± 0.071	0.947 ± 0.010	0.929 ± 0.006	0.937 ± 0.022	0.935 ± 0.011
cryotherapy	0.845 ± 0.020	0.723 ± 0.027	0.843 ± 0.026	0.911 ± 0.044	0.777 ± 0.107
breast tissue	0.637 ± 0.100	0.510 ± 0.061	0.529 ± 0.036	0.689 ± 0.022	0.301 ± 0.143
monkthree	0.913 ± 0.048	0.969 ± 0.012	0.964 ± 0.019	0.953 ± 0.008	0.942 ± 0.023

Table 10: Results for JSS metric

Dataset	GNB	kNN	SVC	DTC	MLP
breastcan	1.414 ± 0.606	$ \ 1.112 \pm 0.773$	1.212 ± 0.802	2.224 ± 0.876	1.464 ± 1.428
wisconsin	1.580 ± 0.634	1.827 ± 1.172	1.630 ± 0.818	2.818 ± 0.810	1.925 ± 1.317
ionosphere	4.627 ± 0.975	6.003 ± 1.340	2.067 ± 0.957	4.822 ± 2.503	2.752 ± 1.441
breast can coimbra	15.403 ± 3.763	17.949 ± 3.484	18.108 ± 3.588	14.251 ± 2.816	15.557 ± 2.712
sonar	12.326 ± 8.074	16.471 ± 4.165	15.256 ± 5.793	11.914 ± 3.097	12.384 ± 4.589
monkone	12.548 ± 3.421	6.546 ± 3.498	6.479 ± 2.234	0.000 ± 0.000	6.476 ± 4.258
heart	5.501 ± 0.867	11.001 ± 1.365	11.129 ± 1.317	8.699 ± 2.237	8.187 ± 2.038
australian	7.361 ± 0.553	10.715 ± 1.288	11.112 ± 1.144	6.905 ± 1.728	8.517 ± 1.665
bank note	5.588 ± 1.150	0.000 ± 0.000	0.000 ± 0.000	0.680 ± 0.218	0.000 ± 0.000
spambase	7.592 ± 2.582	6.201 ± 1.312	5.818 ± 1.230	3.980 ± 1.782	7.147 ± 3.958
liver	15.417 ± 2.225	11.513 ± 1.484	10.712 ± 1.471	11.813 ± 1.570	10.011 ± 0.316
pop failures	1.920 ± 0.294	3.070 ± 0.249	2.942 ± 0.113	3.132 ± 0.952	2.942 ± 0.113
german	9.429 ± 1.384	10.845 ± 0.667	9.636 ± 0.276	10.880 ± 1.191	7.599 ± 0.933
diabetes	8.589 ± 0.642	10.704 ± 1.020	10.841 ± 0.987	10.159 ± 1.472	13.760 ± 2.692
yeast3	24.302 ± 2.473	1.816 ± 0.351	2.444 ± 0.223	2.166 ± 0.792	2.258 ± 0.382
cryotherapy	5.364 ± 0.692	9.575 ± 0.943	5.407 ± 0.917	3.080 ± 1.551	7.719 ± 3.717
monkthree	3.001 ± 1.678	1.060 ± 0.421	1.251 ± 0.687	1.620 ± 0.302	1.993 ± 0.797

Table 11: Results for LoL metric

Dataset	GNB	kNN	SVC	DTC	MLP
breastcan	0.913 ± 0.035	0.930 ± 0.048	0.924 ± 0.050	0.860 ± 0.055	0.907 ± 0.091
wisconsin	0.903 ± 0.036	0.884 ± 0.076	0.897 ± 0.052	0.822 ± 0.051	0.876 ± 0.086
ionosphere	0.706 ± 0.060	0.623 ± 0.090	0.872 ± 0.058	0.694 ± 0.162	0.829 ± 0.090
soy be an	1.000 ± 0.000	0.973 ± 0.054	1.000 ± 0.000	1.000 ± 0.000	1.000 ± 0.000
breast can coimbra	0.165 ± 0.224 -	-0.062 ± 0.227 -	-0.108 ± 0.222	0.174 ± 0.172	0.077 ± 0.182
sonar	0.312 ± 0.488	0.050 ± 0.239	0.114 ± 0.337	0.323 ± 0.182	0.293 ± 0.279
digit	1.000 ± 0.000	0.990 ± 0.002	0.949 ± 0.004	1.000 ± 0.000	0.992 ± 0.002
balance	0.558 ± 0.219	0.553 ± 0.060	0.675 ± 0.146	0.427 ± 0.108	0.856 ± 0.080
monkone	0.274 ± 0.200	0.623 ± 0.202	0.657 ± 0.116	1.000 ± 0.000	0.647 ± 0.225
heart	0.677 ± 0.051	0.349 ± 0.084	0.344 ± 0.078	0.491 ± 0.131	0.530 ± 0.107
australian	0.575 ± 0.036	0.367 ± 0.077	0.342 ± 0.069	0.596 ± 0.103	0.505 ± 0.101
bank note	0.671 ± 0.068	1.000 ± 0.000	1.000 ± 0.000	0.960 ± 0.012	1.000 ± 0.000
spambase	0.623 ± 0.111	0.621 ± 0.079	0.645 ± 0.073	0.763 ± 0.099	0.637 ± 0.173
liver	0.157 ± 0.127	0.301 ± 0.092	0.351 ± 0.105	0.310 ± 0.093	0.402 ± 0.023
wave form	0.734 ± 0.011	0.730 ± 0.027	0.798 ± 0.017	0.626 ± 0.017	0.770 ± 0.023
pop failures	0.566 ± 0.093	-0.008 ± 0.016	0.000 ± 0.000	0.422 ± 0.181	0.041 ± 0.082
hayes	0.564 ± 0.078	0.258 ± 0.123	0.721 ± 0.081	0.751 ± 0.089	0.451 ± 0.263
german	0.378 ± 0.079	0.182 ± 0.042	0.212 ± 0.038	0.250 ± 0.080	0.453 ± 0.060
iris	0.933 ± 0.038	0.962 ± 0.035	0.971 ± 0.023	0.941 ± 0.048	0.951 ± 0.061
wine	0.937 ± 0.050	0.529 ± 0.067	0.588 ± 0.102	0.806 ± 0.048	0.275 ± 0.233
diabetes	0.439 ± 0.043	0.293 ± 0.065	0.243 ± 0.090	0.349 ± 0.079	0.226 ± 0.102
yeast3	0.150 ± 0.052	0.714 ± 0.056	0.576 ± 0.050	0.690 ± 0.092	0.623 ± 0.069
cryotherapy	0.703 ± 0.030	0.483 ± 0.054	0.713 ± 0.046	0.828 ± 0.087	0.574 ± 0.214
breast tissue	0.573 ± 0.118	0.416 ± 0.074	0.444 ± 0.045	0.633 ± 0.030	0.157 ± 0.177
monkthree	0.840 ± 0.086	0.939 ± 0.024	0.929 ± 0.039	0.910 ± 0.015	0.887 ± 0.045

Table 12: Results for MaC metric

Dataset	GNB	kNN	SVC	DTC	MLP
breastcan	0.919 ± 0.042	0.956 ± 0.038	0.936 ± 0.039	0.926 ± 0.039	0.953 ± 0.043
wisconsin	0.909 ± 0.048	0.939 ± 0.050	0.917 ± 0.038	0.899 ± 0.048	0.947 ± 0.049
ionosphere	0.888 ± 0.036	0.931 ± 0.049	0.982 ± 0.021	0.822 ± 0.094	0.978 ± 0.026
breast can coimbra	0.678 ± 0.159	0.541 ± 0.098	0.512 ± 0.073	0.642 ± 0.075	0.480 ± 0.242
sonar	0.715 ± 0.334	0.552 ± 0.132	0.576 ± 0.157	0.679 ± 0.091	0.689 ± 0.179
monkone	0.625 ± 0.093	0.820 ± 0.103	0.875 ± 0.132	1.000 ± 0.000	0.888 ± 0.110
heart	0.836 ± 0.038	0.657 ± 0.042	0.653 ± 0.046	0.712 ± 0.069	0.755 ± 0.108
australian	0.852 ± 0.049	0.686 ± 0.055	0.691 ± 0.038	0.774 ± 0.048	0.733 ± 0.061
bank note	0.837 ± 0.032	1.000 ± 0.000	1.000 ± 0.000	0.974 ± 0.007	1.000 ± 0.000
spambase	0.656 ± 0.070	0.804 ± 0.065	0.811 ± 0.059	0.850 ± 0.081	0.714 ± 0.158
liver	0.680 ± 0.098	0.683 ± 0.032	0.691 ± 0.043	0.721 ± 0.045	0.740 ± 0.023
pop failures	0.944 ± 0.006	0.915 ± 0.003	0.915 ± 0.003	0.951 ± 0.014	0.916 ± 0.005
german	0.546 ± 0.069	0.469 ± 0.048	0.638 ± 0.050	0.476 ± 0.060	0.672 ± 0.069
diabetes	0.662 ± 0.023	0.571 ± 0.056	0.585 ± 0.079	0.591 ± 0.070	0.489 ± 0.115
yeast 3	0.134 ± 0.012	0.817 ± 0.066	0.910 ± 0.111	0.723 ± 0.112	0.824 ± 0.101
cryotherapy	0.823 ± 0.058	0.774 ± 0.116	0.834 ± 0.088	0.922 ± 0.066	0.841 ± 0.157
monkthree	0.991 ± 0.010	0.969 ± 0.019	0.982 ± 0.022	0.971 ± 0.038	0.975 ± 0.031

Table 13: Results for PS metric

Dataset	GNB	kNN	SVC	DTC	MLP
breastcan	0.971 ± 0.010	0.954 ± 0.051	0.967 ± 0.036	0.891 ± 0.083	$\boxed{0.925 \pm 0.098}$
wisconsin	0.967 ± 0.010	0.908 ± 0.091	0.950 ± 0.048	0.867 ± 0.096	0.887 ± 0.091
ion osphere	0.722 ± 0.101	0.556 ± 0.098	0.849 ± 0.077	0.778 ± 0.138	0.794 ± 0.097
breast can coimbra	0.359 ± 0.164	0.532 ± 0.079	0.705 ± 0.162	0.606 ± 0.170	0.631 ± 0.338
sonar	0.531 ± 0.270	0.495 ± 0.140	0.579 ± 0.213	0.686 ± 0.168	0.642 ± 0.142
monkone	0.619 ± 0.186	0.798 ± 0.115	0.777 ± 0.121	1.000 ± 0.000	0.727 ± 0.218
heart	0.800 ± 0.016	0.583 ± 0.087	0.592 ± 0.080	0.725 ± 0.085	0.733 ± 0.042
australian	0.635 ± 0.033	0.563 ± 0.052	0.501 ± 0.096	0.776 ± 0.082	0.709 ± 0.111
bank note	0.789 ± 0.050	1.000 ± 0.000	1.000 ± 0.000	0.982 ± 0.012	1.000 ± 0.000
spambase	0.967 ± 0.015	0.724 ± 0.034	0.751 ± 0.031	0.868 ± 0.028	0.918 ± 0.042
liver	0.435 ± 0.118	0.795 ± 0.050	0.855 ± 0.062	0.675 ± 0.079	0.775 ± 0.038
pop failures	0.998 ± 0.004	0.996 ± 0.008	1.000 ± 0.000	0.949 ± 0.016	0.998 ± 0.004
german	0.610 ± 0.046	0.310 ± 0.034	0.167 ± 0.047	0.473 ± 0.065	0.537 ± 0.028
diabetes	0.586 ± 0.040	0.466 ± 0.051	0.320 ± 0.087	0.552 ± 0.054	0.619 ± 0.206
yeast3	0.982 ± 0.024	0.674 ± 0.044	0.404 ± 0.055	0.730 ± 0.069	0.521 ± 0.044
cryotherapy	0.918 ± 0.075	0.747 ± 0.200	0.913 ± 0.129	0.916 ± 0.076	0.769 ± 0.128
monkthree	0.840 ± 0.089	0.972 ± 0.023	0.948 ± 0.026	0.941 ± 0.043	0.913 ± 0.030

Table 14: Results for RCS metric

Dataset	GNB	kNN	SVC	DTC	MLP
breastcan	0.041 ± 0.017	0.032 ± 0.022	0.035 ± 0.023	0.064 ± 0.025	0.042 ± 0.041
wisconsin	0.046 ± 0.018	0.053 ± 0.033	0.047 ± 0.023	0.082 ± 0.023	0.056 ± 0.038
ionosphere	0.134 ± 0.028	0.174 ± 0.038	0.060 ± 0.027	0.140 ± 0.072	0.080 ± 0.041
soy be an	0.000 ± 0.000	0.022 ± 0.044	0.000 ± 0.000	0.000 ± 0.000	0.000 ± 0.000
breast can coimbra	0.446 ± 0.108	0.520 ± 0.100	0.524 ± 0.103	0.413 ± 0.081	0.450 ± 0.078
sonar	0.357 ± 0.233	0.477 ± 0.120	0.442 ± 0.167	0.345 ± 0.089	0.359 ± 0.132
digit	0.000 ± 0.000	0.009 ± 0.001	0.047 ± 0.004	0.000 ± 0.000	0.007 ± 0.002
balance	0.268 ± 0.147	0.262 ± 0.039	0.195 ± 0.097	0.388 ± 0.110	0.083 ± 0.046
monkone	0.363 ± 0.099	0.190 ± 0.101	0.188 ± 0.064	0.000 ± 0.000	0.188 ± 0.123
heart	0.159 ± 0.025	0.319 ± 0.039	0.322 ± 0.038	0.252 ± 0.064	0.237 ± 0.059
australian	0.213 ± 0.016	0.310 ± 0.037	0.322 ± 0.033	0.200 ± 0.050	0.247 ± 0.048
bank note	0.162 ± 0.033	0.000 ± 0.000	0.000 ± 0.000	0.020 ± 0.006	0.000 ± 0.000
spambase	0.220 ± 0.074	0.180 ± 0.038	0.168 ± 0.035	0.115 ± 0.051	0.207 ± 0.114
liver	0.446 ± 0.064	0.333 ± 0.042	0.310 ± 0.042	0.342 ± 0.045	0.290 ± 0.009
wave form	0.190 ± 0.008	0.181 ± 0.018	0.135 ± 0.011	0.249 ± 0.011	0.154 ± 0.015
pop failures	0.056 ± 0.008	0.089 ± 0.007	0.085 ± 0.003	0.091 ± 0.027	0.085 ± 0.003
hayes	0.300 ± 0.051	0.461 ± 0.074	0.188 ± 0.059	0.162 ± 0.057	0.363 ± 0.185
german	0.273 ± 0.040	0.314 ± 0.019	0.279 ± 0.008	0.315 ± 0.034	0.220 ± 0.027
iris	0.047 ± 0.026	0.027 ± 0.024	0.020 ± 0.016	0.040 ± 0.032	0.033 ± 0.042
wine	0.044 ± 0.036	0.314 ± 0.044	0.280 ± 0.070	0.135 ± 0.036	0.491 ± 0.147
diabetes	0.249 ± 0.018	0.310 ± 0.029	0.314 ± 0.028	0.294 ± 0.042	0.398 ± 0.077
y east 3	0.704 ± 0.071	0.053 ± 0.010	0.071 ± 0.006	0.063 ± 0.022	0.065 ± 0.011
cryotherapy	0.155 ± 0.020	0.277 ± 0.027	0.157 ± 0.026	0.089 ± 0.044	0.223 ± 0.107
breast tissue	0.363 ± 0.100	0.490 ± 0.061	0.471 ± 0.036	0.311 ± 0.022	0.699 ± 0.143
monkthree	0.087 ± 0.048	0.031 ± 0.012	0.036 ± 0.019	0.047 ± 0.008	0.058 ± 0.023

Table 15: Results for ZOL metric