DE-Forest

No Author Given

No Institute Given

1 Results

Table 1. BAC

Dataset name DE-Forest-gm	DE-Forest-AUC	DE-Forest-bac	DE-Forest-gm-b	DE-Forest-AUC-	b DE-Forest-bac-b	RandomFS	RandomFS-b	DT	RF	RF-b
$ds10/glass0.dat \ 0.797 \pm 0.043$	0.797 ± 0.024	0.797 ± 0.048	0.792 ± 0.040	0.792 ± 0.040	0.785 ± 0.041	0.786 ± 0.033	0.731 ± 0.056	0.757 ± 0.039	0.784 ± 0.044	0.775 ± 0.065
$ds10/pima.dat 0.657 \pm 0.026$	0.667 ± 0.030	0.655 ± 0.023	0.661 ± 0.029	0.672 ± 0.012	0.657 ± 0.020	0.586 ± 0.026	0.588 ± 0.031	0.654 ± 0.021	0.687 ± 0.016	0.678 ± 0.026
$ds10/ecoli - 0 - 1 - 3 - 7_v s_2 - 6.dat \ 0.579 \pm 0.109$	0.579 ± 0.109	0.579 ± 0.109	0.562 ± 0.107	0.562 ± 0.107	0.562 ± 0.107	0.516 ± 0.047	0.500 ± 0.000	0.752 ± 0.157	0.628 ± 0.119	0.500 ± 0.000
$ds10/yeast - 1 - 2 - 8 - 9_v s_7.dat = 0.541 \pm 0.030$	0.546 ± 0.039	0.534 ± 0.028	0.515 ± 0.027	0.519 ± 0.027	0.519 ± 0.027	0.507 ± 0.013	0.500 ± 0.000	0.598 ± 0.056	0.540 ± 0.029	0.525 ± 0.032
$ds10/winequality - red - 8_v s_6 - 7.dat 0.560 \pm 0.017$	0.559 ± 0.017	0.559 ± 0.017	0.555 ± 0.000	0.555 ± 0.000	0.555 ± 0.000	0.555 ± 0.000	0.550 ± 0.017	0.558 ± 0.035	0.554 ± 0.002	0.533 ± 0.027
$ds10/poker - 8 - 9_v s_6.dat \ 0.552 \pm 0.065$	0.532 ± 0.047	0.540 ± 0.048	0.529 ± 0.032	0.529 ± 0.032	0.529 ± 0.032	0.500 ± 0.000	0.500 ± 0.000	0.572 ± 0.066	0.544 ± 0.055	0.516 ± 0.020
$ds10/zoo - 3.dat = 0.591 \pm 0.113$	0.574 ± 0.113	0.574 ± 0.113	0.549 ± 0.101	0.549 ± 0.101	0.549 ± 0.101	0.500 ± 0.000	0.500 ± 0.000	0.590 ± 0.107	0.581 ± 0.107	0.600 ± 0.128

Table 2. F1score

Dataset name DE-Forest-gm				DE-Forest-AUC-b					RF	RF-b
$ds10/glass0.dat = 0.833 \pm 0.030$	0.837 ± 0.020	0.833 ± 0.035	0.833 ± 0.028	0.833 ± 0.028						0.804 ± 0.048
$ds10/pima.dat 0.703 \pm 0.022$			0.708 ± 0.026	0.718 ± 0.010						0.721 ± 0.021
$ds10/ecoli - 0 - 1 - 3 - 7_v s_2 - 6.dat \ 0.969 \pm 0.011$	0.969 ± 0.011	0.969 ± 0.011	0.968 ± 0.011	0.968 ± 0.011	0.968 ± 0.011	0.963 ± 0.005	0.963 ± 0.005	0.969 ± 0.009	0.973 ± 0.012	0.963 ± 0.005
$ds10/yeast - 1 - 2 - 8 - 9_v s_7.dat 0.956 \pm 0.005$	0.955 ± 0.005	0.955 ± 0.004	0.954 ± 0.004	0.954 ± 0.004	0.954 ± 0.004	0.954 ± 0.002	0.953 ± 0.000	0.944 ± 0.012	0.955 ± 0.004	0.955 ± 0.004
$ds10/winequality - red - 8_v s_6 - 7.dat$ 0.973 ± 0.002	0.972 ± 0.003	0.972 ± 0.003	0.974 ± 0.000	0.974 ± 0.000	0.974 ± 0.000	0.974 ± 0.000	0.973 ± 0.002	0.959 ± 0.005	0.972 ± 0.002	0.971 ± 0.003
$ds10/poker - 8 - 9_v s_6.dat 0.978 \pm 0.005$	0.977 ± 0.003	0.978 ± 0.004	0.977 ± 0.003	0.977 ± 0.003						0.976 ± 0.002
$ds10/zoo - 3.dat 0.940 \pm 0.025$	0.936 ± 0.026	0.936 ± 0.026	0.933 ± 0.026	0.933 ± 0.026	0.933 ± 0.026	0.927 ± 0.014	0.927 ± 0.014	0.922 ± 0.023	0.940 ± 0.024	0.944 ± 0.025

Table 3. Gmean

Dataset name DE-Forest	gm DE-Forest-AUC	DE-Forest-bac	DE-Forest-gm-b	DE-Forest-AUC-l					RF	RF-b
$ds10/glass0.dat 0.796 \pm 0.$	0.795 ± 0.025	0.796 ± 0.048	0.791 ± 0.041	0.791 ± 0.041					0.783 ± 0.045	
$ds10/pima.dat 0.655 \pm 0.0$		0.653 ± 0.024	0.658 ± 0.031	0.670 ± 0.012					0.685 ± 0.017	
$ds10/ecoli - 0 - 1 - 3 - 7_v s_2 - 6.dat \ 0.345 \pm 0.5$	0.345 ± 0.240	0.345 ± 0.240	0.302 ± 0.232	0.302 ± 0.232	0.302 ± 0.232	0.199 ± 0.127	0.155 ± 0.011	0.663 ± 0.280	0.454 ± 0.257	0.155 ± 0.011
$ds10/yeast - 1 - 2 - 8 - 9_v s_7.dat = 0.322 \pm 0.0$		0.304 ± 0.083	0.232 ± 0.090	0.245 ± 0.090					0.321 ± 0.090	
$ds10/winequality - red - 8_v s_6 - 7.dat 0.369 \pm 0.000$	0.369 ± 0.038	0.369 ± 0.038	0.357 ± 0.000	0.357 ± 0.000					0.356 ± 0.001	
$ds10/poker - 8 - 9_v s_6.dat = 0.289 \pm 0.289$	$82 0.239 \pm 0.148$	0.268 ± 0.152	0.242 ± 0.118	0.242 ± 0.118	0.242 ± 0.118	0.129 ± 0.002	0.129 ± 0.002	0.377 ± 0.166	0.275 ± 0.163	0.200 ± 0.087
$ds10/zoo - 3.dat = 0.407 \pm 0.5$	$28 0.370 \pm 0.224$	0.370 ± 0.224	0.319 ± 0.198	0.319 ± 0.198	0.319 ± 0.198	0.216 ± 0.020	0.216 ± 0.020	0.432 ± 0.222	0.391 ± 0.220	0.414 ± 0.248

Table 4. Precision

Dataset name DE-For	rest-gm D	E-Forest-AUC 1	DE-Forest-bac	DE-Forest-gm-b	DE-Forest-AUC-	b DE-Forest-bac-b	RandomFS	RandomFS-b	DT	RF	RF-b
ds10/glass0.dat 0.836 :	± 0.029 (0.842 ± 0.022	0.838 ± 0.037	0.840 ± 0.027	0.840 ± 0.027	0.836 ± 0.027	0.828 ± 0.028	0.792 ± 0.048	0.788 ± 0.028	0.826 ± 0.028	0.811 ± 0.048
ds10/pima.dat 0.705 :	± 0.023	0.711 ± 0.027	0.700 ± 0.019	0.712 ± 0.025	0.721 ± 0.011	0.705 ± 0.016	0.659 ± 0.030	0.665 ± 0.035	0.685 ± 0.018	0.729 ± 0.015	0.722 ± 0.020
$ds10/ecoli - 0 - 1 - 3 - 7_v s_2 - 6.dat = 0.963$	± 0.018	0.963 ± 0.018	0.963 ± 0.018	0.961 ± 0.018	0.961 ± 0.018	0.961 ± 0.018	0.952 ± 0.009	0.951 ± 0.007	0.973 ± 0.012	0.969 ± 0.017	0.951 ± 0.007
$ds10/yeast - 1 - 2 - 8 - 9_v s_7.dat$ 0.955		0.952 ± 0.012	0.954 ± 0.013	0.946 ± 0.014	0.948 ± 0.014	0.948 ± 0.014	0.944 ± 0.013	0.938 ± 0.000	0.950 ± 0.006	0.951 ± 0.007	0.946 ± 0.010
$ds10/winequality - red - 8_v s_6 - 7.dat$ 0.977	± 0.007	0.972 ± 0.007	0.972 ± 0.007	0.981 ± 0.003	0.981 ± 0.003	0.981 ± 0.003	0.981 ± 0.003	0.979 ± 0.007	0.963 ± 0.002	0.972 ± 0.005	0.970 ± 0.010
$ds10/poker - 8 - 9_v s_6.dat \ 0.977 =$	± 0.010	0.974 ± 0.010	0.976 ± 0.010	0.976 ± 0.010	0.976 ± 0.010	0.976 ± 0.010	0.967 ± 0.001	0.967 ± 0.001	0.971 ± 0.004	0.976 ± 0.010	0.974 ± 0.009
ds10/zoo - 3.dat = 0.927	± 0.039	0.919 ± 0.038	0.919 ± 0.038	0.915 ± 0.036	0.915 ± 0.036	0.915 ± 0.036	0.904 ± 0.018	0.904 ± 0.018	0.923 ± 0.030	0.931 ± 0.037	0.933 ± 0.038

Table 5. Recall

			DD D	DD D		P 1 700	P 1 P O 1	75.00	77.77	22.1
Dataset name DE-Fore	est-gm DE-Forest-AUC	DE-Forest-bac	DE-Forest-gm-b	DE-Forest-AUC-	b DE-Forest-bac-b	RandomFS	RandomFS-b	DT	RF	RF-b
ds10/glass0.dat 0.837 ±	0.027 0.842 ± 0.020	0.837 ± 0.034	0.839 ± 0.025	0.839 ± 0.025	0.836 ± 0.026	0.829 ± 0.028	0.793 ± 0.044	0.783 ± 0.028	0.826 ± 0.026	0.807 ± 0.045
$ds10/pima.dat 0.716 \pm$	$0.019 0.721 \pm 0.024$	0.710 ± 0.017	0.722 ± 0.021	0.729 ± 0.011	0.715 ± 0.014	0.679 ± 0.019	0.683 ± 0.026	0.682 ± 0.017	0.736 ± 0.014	0.731 ± 0.018
$ds10/ecoli - 0 - 1 - 3 - 7_v s_2 - 6.dat 0.978 \pm$	$0.006 0.978 \pm 0.006$	0.978 ± 0.006	0.978 ± 0.007	0.978 ± 0.007	0.978 ± 0.007	0.974 ± 0.005	0.975 ± 0.003	0.968 ± 0.010	0.979 ± 0.008	0.975 ± 0.003
$ds10/yeast - 1 - 2 - 8 - 9_v s_7.dat = 0.966 \pm$	0.005 0.964 ± 0.006	0.966 ± 0.005	0.967 ± 0.003	0.967 ± 0.003	0.967 ± 0.003	0.969 ± 0.001	0.968 ± 0.000	0.939 ± 0.018	0.965 ± 0.004	0.967 ± 0.002
$ds10/winequality - red - 8_v s_6 - 7.dat 0.980 \pm$	0.003 0.978 ± 0.003	0.978 ± 0.003	0.981 ± 0.001	0.955 ± 0.009	0.978 ± 0.003	0.980 ± 0.002				
$ds10/poker - 8 - 9_v s_6.dat \ 0.985 \pm$	0.002 0.984 ± 0.002	0.985 ± 0.002	0.984 ± 0.002	0.984 ± 0.002	0.984 ± 0.002	0.983 ± 0.001	0.983 ± 0.001	0.969 ± 0.007	0.985 ± 0.002	0.984 ± 0.001
do10/son 2 dot 0.057 ±	0.014 0.055 ± 0.015	0.055 ± 0.015	0.052 ± 0.019	0.059 ± 0.019	0.059 ± 0.019	0.051 ± 0.000	0.051 ± 0.000	0.025 ± 0.020	0.055 ± 0.019	0.060 ± 0.015

Table 6. Specificity

Dataset name DE-Forest-g	m DE-Forest-AU	C DE-Forest-ba	c DE-Forest-gm-	b DE-Forest-AUC-b					RF	RF-b
$ds10/glass0.dat \ 0.757 \pm 0.0$	61 0.751 ± 0.033	0.757 ± 0.066	0.746 ± 0.058	0.746 ± 0.058	0.734 ± 0.059	0.742 ± 0.041	0.669 ± 0.072	0.730 ± 0.058	0.742 ± 0.064	0.742 ± 0.092
$ds10/pima.dat = 0.599 \pm 0.03$	$6 - 0.613 \pm 0.037$	0.600 ± 0.030	0.600 ± 0.041	0.616 ± 0.019	0.598 ± 0.029	0.492 ± 0.035	0.494 ± 0.039	0.625 ± 0.028	0.639 ± 0.022	0.625 ± 0.035
$ds10/ecoli - 0 - 1 - 3 - 7_v s_2 - 6.dat \ 0.180 \pm 0.21$	$2 - 0.180 \pm 0.212$	0.180 ± 0.212	0.147 ± 0.209	0.147 ± 0.209	0.147 ± 0.209	0.057 ± 0.097	0.025 ± 0.003	0.536 ± 0.315	0.277 ± 0.231	0.025 ± 0.003
$ds10/yeast - 1 - 2 - 8 - 9_v s_7.dat = 0.115 \pm 0.05$	$8 - 0.128 \pm 0.078$	0.103 ± 0.054	0.064 ± 0.052	0.070 ± 0.052	0.070 ± 0.052	0.045 ± 0.026	0.032 ± 0.000	0.256 ± 0.101	0.115 ± 0.058	0.083 ± 0.063
$ds10/winequality - red - 8_v s_6 - 7.dat \ 0.141 \pm 0.03$	$3 - 0.141 \pm 0.033$	0.141 ± 0.033	0.130 ± 0.000	0.130 ± 0.000	0.130 ± 0.000	0.130 ± 0.000	0.119 ± 0.033	0.162 ± 0.070	0.130 ± 0.000	0.086 ± 0.053
$ds10/poker - 8 - 9_v s_6.dat = 0.118 \pm 0.12$	$9 - 0.080 \pm 0.092$	0.096 ± 0.094	0.074 ± 0.063	0.074 ± 0.063	0.074 ± 0.063	0.017 ± 0.001	0.017 ± 0.001	0.175 ± 0.129	0.104 ± 0.107	0.048 ± 0.039
$de10/roo = 3 dot = 0.995 \pm 0.91$	5 0.103 ± 0.214	0.193 ± 0.214	0.145 ± 0.188	0.145 ± 0.188	0.145 ± 0.188	0.049 ± 0.009	0.049 ± 0.009	0.254 ± 0.211	0.208 ± 0.200	0.240 ± 0.243