

# JFOTS

No Author Given

No Institute Given

## 1 Results

Table 1. CART – AUC

Dataset name	SMOTE	polynom-fit-SMOTE	Lee	SMOBD	G-SMOTE	LVQ-SMOTE	Assembled-SMOTE	SMOTE-TomekLinks	JFOTS-pr	JFOTS-rc	JFOTS-prom	JFOTS-bac
<i>ecoli</i> – 0 – 1 – 3 – 7, $s_2$ – 6	0.790 ± 0.115	0.815 ± 0.063	0.790 ± 0.115	0.790 ± 0.115	0.815 ± 0.063	0.776 ± 0.100	0.790 ± 0.115	0.790 ± 0.115	0.694 ± 0.110	0.669 ± 0.088	0.713 ± 0.115	<b>0.857 ± 0.089</b>
<i>glass2</i>	0.591 ± 0.121	0.563 ± 0.077	0.577 ± 0.111	0.610 ± 0.101	0.599 ± 0.108	0.582 ± 0.110	0.575 ± 0.094	0.606 ± 0.124	0.586 ± 0.076	0.550 ± 0.077	0.616 ± 0.091	<b>0.685 ± 0.079</b>
<i>yeast</i> – 1, $s_7$	0.613 ± 0.057	0.623 ± 0.049	0.601 ± 0.067	0.635 ± 0.052	0.598 ± 0.053	0.659 ± 0.038	0.616 ± 0.048	0.609 ± 0.053	0.584 ± 0.046	0.511 ± 0.029	0.599 ± 0.068	<b>0.688 ± 0.036</b>
<i>200</i> – 3	0.658 ± 0.189	0.608 ± 0.123	0.665 ± 0.158	0.650 ± 0.156	0.635 ± 0.160	0.738 ± 0.159	0.639 ± 0.122	0.658 ± 0.189	0.509 ± 0.127	0.509 ± 0.127	0.509 ± 0.127	<b>0.944 ± 0.088</b>
<i>vehicle3</i>	0.666 ± 0.023	0.690 ± 0.023	0.655 ± 0.023	0.677 ± 0.028	0.671 ± 0.019	0.685 ± 0.014	0.674 ± 0.020	0.667 ± 0.013	0.662 ± 0.038	0.680 ± 0.023	0.666 ± 0.028	<b>0.726 ± 0.019</b>

Table 2. SVM – AUC

Dataset name	SMOTE	polynom-fit-SMOTE	Lee	SMOBD	G-SMOTE	LVQ-SMOTE	Assembled-SMOTE	SMOTE-TomekLinks	JFOTS-pr	JFOTS-rc	JFOTS-prom	JFOTS-bac
<i>ecoli</i> – 0 – 1 – 3 – 7, $s_2$ – 6	0.845 ± 0.075	0.847 ± 0.078	0.838 ± 0.071	0.842 ± 0.076	0.845 ± 0.077	0.828 ± 0.078	0.844 ± 0.075	0.845 ± 0.075	0.844 ± 0.110	0.840 ± 0.110	0.861 ± 0.092	<b>0.890 ± 0.106</b>
<i>glass2</i>	0.642 ± 0.143	0.638 ± 0.134	0.648 ± 0.140	0.637 ± 0.137	0.651 ± 0.137	0.677 ± 0.158	0.648 ± 0.146	0.641 ± 0.143	0.626 ± 0.130	0.631 ± 0.118	0.643 ± 0.119	<b>0.765 ± 0.110</b>
<i>yeast</i> – 1, $s_7$	0.690 ± 0.041	0.671 ± 0.046	0.691 ± 0.039	0.692 ± 0.043	0.664 ± 0.066	0.686 ± 0.064	0.683 ± 0.040	0.689 ± 0.041	0.596 ± 0.086	0.512 ± 0.030	0.630 ± 0.066	<b>0.741 ± 0.047</b>
<i>200</i> – 3	0.611 ± 0.162	0.611 ± 0.162	0.611 ± 0.162	0.597 ± 0.163	0.611 ± 0.162	0.595 ± 0.161	0.611 ± 0.162	0.611 ± 0.162	0.547 ± 0.174	0.547 ± 0.174	0.547 ± 0.174	<b>0.943 ± 0.074</b>
<i>vehicle3</i>	0.789 ± 0.022	0.734 ± 0.017	0.790 ± 0.018	0.797 ± 0.026	0.790 ± 0.016	0.789 ± 0.023	0.789 ± 0.018	0.790 ± 0.021	0.650 ± 0.021	0.789 ± 0.027	0.764 ± 0.038	<b>0.813 ± 0.021</b>

Table 3. KNN – BAC

Dataset name	SMOTE	polynom-fit-SMOTE	Lee	SMOBD	G-SMOTE	LVQ-SMOTE	Assembled-SMOTE	SMOTE-TomekLinks	JFOTS-pr	JFOTS-rc	JFOTS-prom	JFOTS-bac
<i>ecoli</i> – 0 – 1 – 3 – 7, $s_2$ – 6	0.834 ± 0.075	0.835 ± 0.076	0.834 ± 0.074	0.833 ± 0.074	0.835 ± 0.076	0.833 ± 0.076	0.834 ± 0.075	0.834 ± 0.075	0.800 ± 0.108	0.800 ± 0.106	0.820 ± 0.096	<b>0.878 ± 0.103</b>
<i>glass2</i>	0.630 ± 0.134	0.633 ± 0.137	0.637 ± 0.131	0.644 ± 0.141	0.630 ± 0.135	0.627 ± 0.112	0.635 ± 0.145	0.628 ± 0.133	0.640 ± 0.098	0.583 ± 0.096	0.596 ± 0.080	<b>0.771 ± 0.096</b>
<i>yeast</i> – 1, $s_7$	0.723 ± 0.036	0.723 ± 0.042	0.726 ± 0.035	<b>0.732</b> ± <b>0.042</b>	0.702 ± 0.055	0.690 ± 0.033	0.701 ± 0.051	0.722 ± 0.035	0.698 ± 0.035	0.499 ± 0.002	0.575 ± 0.076	0.710 ± 0.030
<i>200</i> – 3	0.827 ± 0.157	0.827 ± 0.157	0.827 ± 0.157	0.717 ± 0.191	0.827 ± 0.157	0.692 ± 0.167	0.827 ± 0.157	0.827 ± 0.157	0.630 ± 0.130	0.630 ± 0.130	0.630 ± 0.130	<b>0.975 ± 0.048</b>
<i>vehicle3</i>	0.708 ± 0.018	0.700 ± 0.029	0.712 ± 0.019	0.718 ± 0.025	0.710 ± 0.017	0.692 ± 0.023	0.712 ± 0.020	0.706 ± 0.020	0.656 ± 0.019	0.696 ± 0.023	0.700 ± 0.027	<b>0.738 ± 0.024</b>

Table 4. CART – G-mean

Dataset name	SMOTE	polynom-fit-SMOTE	Lee	SMOBD	G-SMOTE	LVQ-SMOTE	Assembled-SMOTE	SMOTE-TomekLinks	JFOTS-pr	JFOTS-rc	JFOTS-prom	JFOTS-bac
<i>ecoli</i> – 0 – 1 – 3 – 7, $s_2$ – 6	0.723 ± 0.254	0.783 ± 0.086	0.723 ± 0.254	0.723 ± 0.254	0.793 ± 0.086	0.736 ± 0.115	0.723 ± 0.254	0.723 ± 0.254	0.594 ± 0.232	0.407 ± 0.271	0.619 ± 0.241	<b>0.840 ± 0.110</b>
<i>glass2</i>	0.431 ± 0.261	0.399 ± 0.218	0.402 ± 0.248	0.495 ± 0.204	0.430 ± 0.259	0.472 ± 0.209	0.465 ± 0.235	0.453 ± 0.267	0.422 ± 0.228	0.451 ± 0.106	0.526 ± 0.148	<b>0.625 ± 0.133</b>
<i>yeast</i> – 1, $s_7$	0.531 ± 0.092	0.536 ± 0.090	0.515 ± 0.103	0.568 ± 0.087	0.500 ± 0.094	0.631 ± 0.056	0.544 ± 0.077	0.526 ± 0.084	0.439 ± 0.103	0.099 ± 0.170	0.478 ± 0.187	<b>0.661 ± 0.045</b>
<i>200</i> – 3	0.451 ± 0.391	0.394 ± 0.329	0.496 ± 0.344	0.480 ± 0.336	0.424 ± 0.362	0.656 ± 0.267	0.467 ± 0.313	0.451 ± 0.391	0.321 ± 0.266	0.321 ± 0.266	0.321 ± 0.266	<b>0.936 ± 0.105</b>
<i>vehicle3</i>	0.652 ± 0.027	0.677 ± 0.026	0.636 ± 0.027	0.665 ± 0.033	0.656 ± 0.022	0.675 ± 0.015	0.659 ± 0.027	0.653 ± 0.015	0.645 ± 0.044	0.667 ± 0.026	0.647 ± 0.038	<b>0.717 ± 0.023</b>

Table 5. SVM – G-mean

Dataset name	SMOTE	polynom-fit-SMOTE	Lee	SMOBD	G-SMOTE	LVQ-SMOTE	Assembled-SMOTE	SMOTE-TomekLinks	JFOTS-pr	JFOTS-rc	JFOTS-prom	JFOTS-bac
<i>ecoli</i> – 0 – 1 – 3 – 7, $s_2$ – 6	0.826 ± 0.097	0.828 ± 0.099	0.821 ± 0.095	0.824 ± 0.097	0.827 ± 0.100	0.813 ± 0.098	0.826 ± 0.097	0.826 ± 0.097	0.821 ± 0.140	0.818 ± 0.140	0.845 ± 0.113	<b>0.875 ± 0.128</b>
<i>glass2</i>	0.546 ± 0.287	0.528 ± 0.283	0.554 ± 0.287	0.538 ± 0.284	0.555 ± 0.287	0.593 ± 0.302	0.552 ± 0.291	0.546 ± 0.286	0.550 ± 0.235	0.552 ± 0.163	0.588 ± 0.219	<b>0.735 ± 0.161</b>
<i>yeast</i> – 1, $s_7$	0.672 ± 0.048	0.637 ± 0.060	0.675 ± 0.045	0.675 ± 0.050	0.627 ± 0.090	0.661 ± 0.077	0.664 ± 0.048	0.671 ± 0.049	0.504 ± 0.109	0.099 ± 0.168	0.529 ± 0.175	<b>0.723 ± 0.067</b>
<i>200</i> – 3	0.297 ± 0.377	0.297 ± 0.377	0.297 ± 0.377	0.240 ± 0.373	0.297 ± 0.377	0.238 ± 0.372	0.297 ± 0.377	0.297 ± 0.377	0.359 ± 0.313	0.359 ± 0.313	0.359 ± 0.313	<b>0.938 ± 0.082</b>
<i>vehicle3</i>	0.786 ± 0.020	0.728 ± 0.020	0.786 ± 0.016	0.793 ± 0.024	0.788 ± 0.016	0.786 ± 0.021	0.786 ± 0.017	0.787 ± 0.019	0.591 ± 0.047	0.782 ± 0.029	0.755 ± 0.050	<b>0.807 ± 0.021</b>

Table 6. KNN – Precision

Dataset name	SMOTE	polynom-fit-SMOTE	Lee	SMOBD	G-SMOTE	LVQ-SMOTE	Assembled-SMOTE	SMOTE-TomekLinks	JFOTS-pr	JFOTS-rc	JFOTS-prom	JFOTS-bac
<i>ecoli</i> – 0 – 1 – 3 – $\gamma_{s_2}$ – 6	$0.378 \pm 0.110$	$0.413 \pm 0.150$	$0.381 \pm 0.119$	$0.371 \pm 0.113$	$0.414 \pm 0.151$	$0.354 \pm 0.099$	$0.374 \pm 0.111$	$0.378 \pm 0.110$	$0.315 \pm 0.136$	$0.303 \pm 0.082$	$0.425 \pm 0.239$	<b><math>0.577 \pm 0.199</math></b>
<i>glass2</i> 0.182 $\pm$ 0.110	$0.180 \pm 0.114$	$0.176 \pm 0.109$	$0.180 \pm 0.102$	$0.181 \pm 0.113$	$0.170 \pm 0.080$	$0.170 \pm 0.104$	$0.176 \pm 0.105$	$0.176 \pm 0.105$	$0.205 \pm 0.103$	$0.154 \pm 0.136$	$0.179 \pm 0.075$	<b><math>0.539 \pm 0.060</math></b>
<i>yeast</i> – $1_{s_7}$ 0.202 $\pm$ 0.027	$0.216 \pm 0.037$	$0.201 \pm 0.020$	$0.201 \pm 0.027$	$0.213 \pm 0.042$	$0.192 \pm 0.024$	$0.198 \pm 0.035$	$0.200 \pm 0.027$	<b><math>0.363 \pm 0.136</math></b>	$0.000 \pm 0.000$	$0.255 \pm 0.303$	$0.351 \pm 0.113$	
<i>zoo</i> – 3 0.460 $\pm$ 0.260	$0.460 \pm 0.260$	$0.460 \pm 0.260$	$0.367 \pm 0.354$	$0.460 \pm 0.260$	$0.367 \pm 0.354$	$0.460 \pm 0.260$	$0.460 \pm 0.260$	$0.460 \pm 0.260$	$0.253 \pm 0.238$	$0.253 \pm 0.238$	$0.253 \pm 0.238$	<b><math>0.817 \pm 0.205</math></b>
<i>vehicle3</i> 0.470 $\pm$ 0.028	$0.474 \pm 0.037$	$0.473 \pm 0.026$	$0.471 \pm 0.028$	$0.475 \pm 0.024$	$0.470 \pm 0.029$	$0.467 \pm 0.026$	$0.468 \pm 0.029$	<b><math>0.534 \pm 0.037</math></b>	$0.476 \pm 0.034$	$0.499 \pm 0.055$	$0.528 \pm 0.041$	

Table 7. CART – Recall

Dataset name	SMOTE	polynom-fit-SMOTE	Lee	SMOBD	G-SMOTE	LVQ-SMOTE	Assembled-SMOTE	SMOTE-TomekLinks	JFOTS-pr	JFOTS-rc	JFOTS-prom	JFOTS-bac
<i>ecoli</i> – 0 – 1 – 3 – $\gamma_{s_2}$ – 6	$0.600 \pm 0.232$	$0.650 \pm 0.128$	$0.600 \pm 0.232$	$0.600 \pm 0.232$	$0.650 \pm 0.128$	$0.575 \pm 0.199$	$0.600 \pm 0.232$	$0.600 \pm 0.232$	$0.417 \pm 0.211$	$0.250 \pm 0.183$	$0.450 \pm 0.221$	<b><math>0.725 \pm 0.179</math></b>
<i>glass2</i> 0.275 $\pm$ 0.223	$0.233 \pm 0.160$	$0.239 \pm 0.199$	$0.312 \pm 0.182$	$0.274 \pm 0.216$	$0.318 \pm 0.230$	$0.239 \pm 0.175$	$0.300 \pm 0.232$	$0.251 \pm 0.158$	<b><math>0.479 \pm 0.285</math></b>	$0.331 \pm 0.175$	$0.440 \pm 0.158$	
<i>yeast</i> – $1_{s_7}$ 0.320 $\pm$ 0.111	$0.320 \pm 0.102$	$0.307 \pm 0.120$	$0.367 \pm 0.109$	$0.287 \pm 0.116$	$0.487 \pm 0.099$	$0.340 \pm 0.105$	$0.313 \pm 0.099$	$0.213 \pm 0.093$	<b><math>0.760 \pm 0.398</math></b>	$0.440 \pm 0.285$	$0.573 \pm 0.161$	
<i>zoo</i> – 3 0.383 $\pm$ 0.380	$0.283 \pm 0.248$	$0.383 \pm 0.308$	$0.367 \pm 0.306$	$0.333 \pm 0.325$	$0.517 \pm 0.293$	$0.333 \pm 0.236$	$0.383 \pm 0.380$	$0.317 \pm 0.311$	$0.317 \pm 0.311$	$0.317 \pm 0.311$	<b><math>0.967 \pm 0.100</math></b>	
<i>vehicle3</i> 0.534 $\pm$ 0.046	$0.558 \pm 0.040$	$0.504 \pm 0.044$	$0.559 \pm 0.056$	$0.533 \pm 0.039$	$0.576 \pm 0.035$	$0.537 \pm 0.054$	$0.535 \pm 0.028$	$0.516 \pm 0.063$	$0.548 \pm 0.040$	$0.514 \pm 0.064$	<b><math>0.622 \pm 0.050</math></b>	

Table 8. SVM – Recall

Dataset name	SMOTE	polynom-fit-SMOTE	Lee	SMOBD	G-SMOTE	LVQ-SMOTE	Assembled-SMOTE	SMOTE-TomekLinks	JFOTS-pr	JFOTS-rc	JFOTS-prom	JFOTS-bac
<i>ecoli</i> – 0 – 1 – 3 – $\gamma_{s_2}$ – 6	$0.700 \pm 0.155$	$0.700 \pm 0.155$	$0.700 \pm 0.155$	$0.700 \pm 0.155$	$0.700 \pm 0.155$	$0.725 \pm 0.179$	$0.700 \pm 0.155$	$0.700 \pm 0.155$	$0.742 \pm 0.148$	$0.742 \pm 0.148$	$0.775 \pm 0.211$	<b><math>0.800 \pm 0.221</math></b>
<i>glass2</i> 0.458 $\pm$ 0.275	$0.415 \pm 0.259$	$0.471 \pm 0.274$	$0.449 \pm 0.273$	$0.472 \pm 0.278$	$0.539 \pm 0.297$	$0.471 \pm 0.285$	$0.458 \pm 0.275$	$0.482 \pm 0.281$	<b><math>0.764 \pm 0.284</math></b>	$0.569 \pm 0.267$	$0.761 \pm 0.259$	
<i>yeast</i> – $1_{s_7}$ 0.540 $\pm$ 0.076	$0.467 \pm 0.089$	$0.547 \pm 0.065$	$0.547 \pm 0.078$	$0.467 \pm 0.140$	$0.520 \pm 0.115$	$0.533 \pm 0.079$	$0.540 \pm 0.076$	$0.320 \pm 0.157$	<b><math>0.974 \pm 0.080</math></b>	$0.547 \pm 0.286$	$0.693 \pm 0.167$	
<i>zoo</i> – 3 0.233 $\pm$ 0.327	$0.233 \pm 0.327$	$0.233 \pm 0.327$	$0.200 \pm 0.332$	$0.233 \pm 0.327$	$0.200 \pm 0.332$	$0.233 \pm 0.327$	$0.233 \pm 0.327$	$0.383 \pm 0.380$	$0.383 \pm 0.380$	$0.383 \pm 0.380$	<b><math>0.900 \pm 0.153</math></b>	
<i>vehicle3</i> 0.845 $\pm$ 0.056	$0.648 \pm 0.053$	$0.850 \pm 0.053$	$0.866 \pm 0.056$	$0.848 \pm 0.040$	$0.844 \pm 0.052$	$0.845 \pm 0.040$	$0.847 \pm 0.055$	$0.390 \pm 0.075$	$0.881 \pm 0.066$	$0.799 \pm 0.137$	<b><math>0.906 \pm 0.044</math></b>	

Table 9. KNN – AUC

Dataset name	SMOTE	polynom-fit-SMOTE	Lee	SMOBD	G-SMOTE	LVQ-SMOTE	Assembled-SMOTE	SMOTE-TomekLinks	JFOTS-pr	JFOTS-rc	JFOTS-prom	JFOTS-bac
<i>ecoli</i> – 0 – 1 – 3 – $\gamma_{s_2}$ – 6	$0.834 \pm 0.075$	$0.835 \pm 0.076$	$0.834 \pm 0.074$	$0.833 \pm 0.074$	$0.835 \pm 0.076$	$0.833 \pm 0.076$	$0.834 \pm 0.075$	$0.834 \pm 0.075$	$0.800 \pm 0.108$	$0.800 \pm 0.106$	$0.820 \pm 0.096$	<b><math>0.878 \pm 0.103</math></b>
<i>glass2</i> 0.630 $\pm$ 0.134	$0.633 \pm 0.137$	$0.637 \pm 0.151$	$0.644 \pm 0.141$	$0.630 \pm 0.135$	$0.627 \pm 0.112$	$0.635 \pm 0.145$	$0.628 \pm 0.133$	$0.640 \pm 0.098$	$0.583 \pm 0.096$	$0.596 \pm 0.080$	<b><math>0.771 \pm 0.096</math></b>	
<i>yeast</i> – $1_{s_7}$ 0.723 $\pm$ 0.036	$0.723 \pm 0.042$	$0.726 \pm 0.035$	<b><math>0.732 \pm 0.042</math></b>	$0.702 \pm 0.055$	$0.690 \pm 0.033$	$0.701 \pm 0.051$	$0.722 \pm 0.035$	$0.698 \pm 0.035$	$0.499 \pm 0.092$	$0.575 \pm 0.076$	$0.710 \pm 0.039$	
<i>zoo</i> – 3 0.827 $\pm$ 0.157	$0.827 \pm 0.157$	$0.827 \pm 0.157$	$0.717 \pm 0.191$	$0.827 \pm 0.157$	$0.692 \pm 0.167$	$0.827 \pm 0.157$	$0.827 \pm 0.157$	$0.630 \pm 0.130$	$0.630 \pm 0.130$	$0.630 \pm 0.130$	<b><math>0.975 \pm 0.048</math></b>	
<i>vehicle3</i> 0.708 $\pm$ 0.018	$0.700 \pm 0.029$	$0.712 \pm 0.019$	$0.718 \pm 0.025$	$0.710 \pm 0.017$	$0.692 \pm 0.023$	$0.712 \pm 0.020$	$0.706 \pm 0.020$	$0.656 \pm 0.019$	$0.696 \pm 0.023$	$0.700 \pm 0.027$	<b><math>0.738 \pm 0.024</math></b>	

Table 10. CART – BAC

Dataset name	SMOTE	polynom-fit-SMOTE	Lee	SMOBD	G-SMOTE	LVQ-SMOTE	Assembled-SMOTE	SMOTE-TomekLinks	JFOTS-pr	JFOTS-rc	JFOTS-prom	JFOTS-bac
<i>ecoli</i> – 0 – 1 – 3 – $\gamma_{s_2}$ – 6	$0.790 \pm 0.115$	$0.815 \pm 0.063$	$0.790 \pm 0.115$	$0.790 \pm 0.115$	$0.815 \pm 0.063$	$0.776 \pm 0.100$	$0.790 \pm 0.115$	$0.790 \pm 0.115$	$0.694 \pm 0.110$	$0.609 \pm 0.088$	$0.713 \pm 0.115$	<b><math>0.857 \pm 0.089</math></b>
<i>glass2</i> 0.591 $\pm$ 0.121	$0.563 \pm 0.077$	$0.577 \pm 0.111$	$0.610 \pm 0.101$	$0.599 \pm 0.108$	$0.582 \pm 0.110$	$0.575 \pm 0.094$	$0.606 \pm 0.124$	$0.586 \pm 0.076$	$0.550 \pm 0.077$	$0.616 \pm 0.091$	<b><math>0.685 \pm 0.079</math></b>	
<i>yeast</i> – $1_{s_7}$ 0.613 $\pm$ 0.057	$0.623 \pm 0.049$	$0.601 \pm 0.067$	$0.635 \pm 0.052$	$0.598 \pm 0.053$	$0.659 \pm 0.038$	$0.616 \pm 0.048$	$0.609 \pm 0.053$	$0.584 \pm 0.046$	$0.511 \pm 0.029$	$0.599 \pm 0.068$	<b><math>0.688 \pm 0.036</math></b>	
<i>zoo</i> – 3 0.658 $\pm$ 0.189	$0.608 \pm 0.123$	$0.665 \pm 0.158$	$0.650 \pm 0.156$	$0.635 \pm 0.160$	$0.738 \pm 0.159$	$0.639 \pm 0.122$	$0.658 \pm 0.189$	$0.509 \pm 0.127$	$0.509 \pm 0.127$	$0.509 \pm 0.127$	<b><math>0.944 \pm 0.088</math></b>	
<i>vehicle3</i> 0.666 $\pm$ 0.023	$0.690 \pm 0.023$	$0.655 \pm 0.023$	$0.677 \pm 0.028$	$0.671 \pm 0.019$	$0.685 \pm 0.014$	$0.674 \pm 0.020$	$0.667 \pm 0.013$	$0.662 \pm 0.038$	$0.680 \pm 0.023$	$0.666 \pm 0.028$	<b><math>0.726 \pm 0.019</math></b>	

Table 11. SVM – BAC

Dataset name	SMOTE	polynom-fit-SMOTE	Lee	SMOBD	G-SMOTE	LVQ-SMOTE	Assembled-SMOTE	SMOTE-TomekLinks	JFOTS-pr	JFOTS-rc	JFOTS-prom	JFOTS-bac
<i>ecoli</i> – 0 – 1 – 3 – $\gamma_{s_2}$ – 6	$0.843 \pm 0.078$	$0.838 \pm 0.074$	$0.842 \pm 0.076$	$0.845 \pm 0.079$	$0.828 \pm 0.078$	$0.844 \pm 0.075$	$0.845 \pm 0.075$	$0.844 \pm 0.075$	$0.844 \pm 0.110$	$0.840 \pm 0.110$	$0.861 \pm 0.092$	<b><math>0.890 \pm 0.106</math></b>
<i>glass2</i> 0.642 $\pm$ 0.143	$0.638 \pm 0.134$	$0.648 \pm 0.140$	$0.637 \pm 0.137$	$0.651 \pm 0.137$	$0.677 \pm 0.158$	$0.648 \pm 0.146$	$0.641 \pm 0.143$	$0.626 \pm 0.130$	$0.631 \pm 0.118$	$0.643 \pm 0.119$	<b><math>0.765 \pm 0.110</math></b>	
<i>yeast</i> – $1_{s_7}$ 0.690 $\pm$ 0.041	$0.671 \pm 0.046$	$0.691 \pm 0.039$	$0.692 \pm 0.043$	$0.664 \pm 0.066$	$0.686 \pm 0.064$	$0.683 \pm 0.040$	$0.689 \pm 0.041$	$0.596 \pm 0.086$	$0.512 \pm 0.030$	$0.630 \pm 0.066$	<b><math>0.741 \pm 0.047</math></b>	
<i>zoo</i> – 3 0.611 $\pm$ 0.162	$0.611 \pm 0.162$	$0.611 \pm 0.162$	$0.597 \pm 0.163$	$0.612 \pm 0.162$	$0.595 \pm 0.161$	$0.611 \pm 0.162$	$0.611 \pm 0.162$	$0.547 \pm 0.174$	$0.547 \pm 0.174$	$0.547 \pm 0.174$	<b><math>0.943 \pm 0.074</math></b>	
<i>vehicle3</i> 0.789 $\pm$ 0.022	$0.734 \pm 0.017$	$0.790 \pm 0.018$	$0.797 \pm 0.026$	$0.790 \pm 0.016$	$0.789 \pm 0.023$	$0.789 \pm 0.018$	$0.790 \pm 0.021$	$0.650 \pm 0.021$	$0.789 \pm 0.027$	$0.764 \pm 0.038$	<b><math>0.813 \pm 0.021</math></b>	

Table 12. KNN – G-mean

Dataset name	SMOTE	polynom-fit-SMOTE	Lee	SMOBD	G-SMOTE	LVQ-SMOTE	Assembled-SMOTE	SMOTE-TomekLinks	JFOTS-pr	JFOTS-rc	JFOTS-prom	JFOTS-bac
<i>ecoli</i> – 0 – 1 – 3 – $\gamma_{s_2}$ – 6	$0.817 \pm 0.096$	$0.818 \pm 0.097$	$0.817 \pm 0.096$	$0.816 \pm 0.096$	$0.818 \pm 0.097$	$0.816 \pm 0.097$	$0.817 \pm 0.096$	$0.817 \pm 0.096$	$0.771 \pm 0.135$	$0.771 \pm 0.133$	$0.797 \pm 0.117$	<b><math>0.863 \pm 0.125</math></b>
<i>glass2</i> 0.543 $\pm$ 0.246	$0.523 \pm 0.291$	$0.522 \pm 0.300$	$0.538 \pm 0.255$	$0.513 \pm 0.288$	$0.531 \pm 0.222$	$0.520 \pm 0.295$	$0.541 \pm 0.245$	$0.562 \pm 0.211$	$0.362 \pm 0.282$	$0.508 \pm 0.138$	<b><math>0.748 \pm 0.128</math></b>	
<i>yeast</i> – $1_{s_7}$ 0.715 $\pm$ 0.040	$0.711 \pm 0.049$	$0.717 \pm 0.040$	<b><math>0.728 \pm 0.047</math></b>	$0.682 \pm 0.067$	$0.671 \pm 0.040$	$0.688 \pm 0.058$	$0.713 \pm 0.039$	$0.489 \pm 0.082$	$0.000 \pm 0.000$	$0.314 \pm 0.269$	$0.675 \pm 0.037$	
<i>zoo</i> – 3 0.769 $\pm$ 0.280	$0.769 \pm 0.280$	$0.769 \pm 0.280$	$0.545 \pm 0.387$	$0.769 \pm 0.280$	$0.516 \pm 0.362$	$0.769 \pm 0.280$	$0.769 \pm 0.280$	$0.410 \pm 0.343$	$0.410 \pm 0.343$	$0.410 \pm 0.343$	<b><math>0.973 \pm 0.053</math></b>	
<i>vehicle3</i> 0.707 $\pm$ 0.019	$0.696 \pm 0.030$	$0.711 \pm 0.019$	$0.717 \pm 0.025$	$0.709 \pm 0.018$	$0.688 \pm 0.024$	$0.711 \pm 0.021$	$0.709 \pm 0.020$	$0.619 \pm 0.030$	$0.692 \pm 0.026$	$0.693 \pm 0.029$	<b><math>0.734 \pm 0.029</math></b>	

Table 13. CART – Precision

Dataset name	SMOTE	polynom-fit-SMOTE	Lee	SMOBD	G-SMOTE	LVQ-SMOTE	Assembled-SMOTE	SMOTE-TomekLinks	JFOTS-pr	JFOTS-rc	JFOTS-prom	JFOTS-bac
<i>ecoli</i> – 0 – 1 – 3 – $\gamma_{s_2}$ – 6	0.438 ± 0.237	0.438 ± 0.186	0.438 ± 0.237	0.438 ± 0.186	0.433 ± 0.240	0.438 ± 0.237	0.438 ± 0.237	0.438 ± 0.237	0.335 ± 0.271	0.149 ± 0.124	0.363 ± 0.262	<b>0.708 ± 0.228</b>
<i>glass2</i> 0.214 ± 0.174	0.174 ± 0.128	0.214 ± 0.185	0.237 ± 0.164	0.240 ± 0.221	0.143 ± 0.081	0.201 ± 0.153	0.228 ± 0.173	0.205 ± 0.141	0.151 ± 0.111	0.230 ± 0.130	<b>0.363 ± 0.143</b>	
<i>glass1</i> – 0.231 ± 0.203	0.203 ± 0.167	0.218 ± 0.182	0.214 ± 0.195	0.186 ± 0.105	0.169 ± 0.121	0.186 ± 0.151	0.198 ± 0.071	<b>0.270 ± 0.120</b>	0.055 ± 0.029	0.161 ± 0.079	0.217 ± 0.093	
<i>zoo</i> – 0.319 ± 0.192	0.170 ± 0.169	0.301 ± 0.296	0.274 ± 0.230	0.246 ± 0.300	0.579 ± 0.380	0.334 ± 0.365	0.196 ± 0.192	0.104 ± 0.163	0.104 ± 0.163	0.104 ± 0.163	<b>0.665 ± 0.272</b>	
<i>vehicle8</i> 0.471 ± 0.193	0.512 ± 0.401	0.467 ± 0.402	0.477 ± 0.308	0.483 ± 0.028	0.486 ± 0.037	0.490 ± 0.025	0.473 ± 0.028	0.475 ± 0.053	0.495 ± 0.033	0.487 ± 0.042	<b>0.552 ± 0.035</b>	