Table 1:

Dataset	GNB (1)	OSB (2)	OKNORAU (3)	TBAC (4)	OTBAC (5)	TBAW (6)	OTBAW (7)
glass-0-1-6-vs-2	0.565 ± 0.111 [—]	0.573 ± 0.119 [—]	0.598 ± 0.141 [1,2]	0.715 ± 0.115 [1,2,3,6,7]	0.716 ± 0.116 [1,2,3,6,7]	0.602 ± 0.083 [1,7]	0.601 ± 0.083 [1]
ecoli-0-3-4-7-vs-5-6	0.778 ± 0.080 [—]	0.837 ± 0.083 [—]	0.897 ± 0.075 [1,2]	0.885 ± 0.078 [1,2,3,6,7]	0.885 ± 0.078 [1,2,3,6,7]	0.818 ± 0.087 [1,7]	0.776 ± 0.094 [1]
shuttle-c2-vs-c4	0.988 ± 0.022 [—]	0.999 ± 0.005 [1,6,7]	0.999 ± 0.005 [1,2,6,7]	0.845 ± 0.222 [1,2,6,7]	0.845 ± 0.222 [1,2,6,7]	0.836 ± 0.225 [1,7]	0.845 ± 0.217 [—]
glass-0-1-4-6-vs-2	0.579 ± 0.128 [4,5,6,7]	0.582 ± 0.129 [1,4,5,6,7]	0.610 ± 0.154 [1,4,5,6,7]	0.727 ± 0.104 [6,7]	0.727 ± 0.103 [6,7]	0.640 ± 0.073 [—]	0.635 ± 0.072 [—]
yeast-1-2-8-9-vs-7	0.540 ± 0.011 [—]	0.541 ± 0.012 [—]	0.597 ± 0.048 [1,2]	0.683 ± 0.087 [1,2,3,6,7]	0.683 ± 0.086 [1,2,3,6,7]	0.572 ± 0.054 [1,7]	0.579 ± 0.053 [1]
ecoli-0-1-4-6-vs-5	0.847 ± 0.098 [—]	0.891 ± 0.088 [—]	0.902 ± 0.087 [1,2,6,7]	0.899 ± 0.079 [1,2,3,6,7]	0.902 ± 0.076 [1,2,3,6,7]	0.858 ± 0.076 [1,2]	0.834 ± 0.093 [1,2]
glass-0-1-6-vs-5	0.956 ± 0.109 [—]	0.912 ± 0.144 [1,6,7]	0.888 ± 0.151 [1,2,6,7]	0.861 ± 0.151 [1,2,6,7]	0.861 ± 0.151 [1,2,6,7]	0.860 ± 0.150 [7]	0.860 ± 0.150 [—]
yeast-2-vs-4	0.608 ± 0.128 [4,5,6,7]	0.591 ± 0.122 [—]	0.852 ± 0.098 [—]	0.855 ± 0.071 [—]	0.856 ± 0.070 [—]	0.617 ± 0.104 [—]	0.653 ± 0.138 [—]
glass-0-6-vs-5	0.945 ± 0.140 [2]	0.925 ± 0.149 [—]	0.905 ± 0.156 [1,2,6,7]	0.840 ± 0.178 [1,2,6,7]	0.840 ± 0.178 [1,2,4,6,7]	0.858 ± 0.173 [—]	0.858 ± 0.173 [2]
ecoli-0-3-4-6-vs-5	0.755 ± 0.102 [4,5,6,7]	0.827 ± 0.099 [4,5,6,7]	0.899 ± 0.104 [—]	0.893 ± 0.087 [—]	0.892 ± 0.086 [—]	0.770 ± 0.123 [—]	0.757 ± 0.119 [—]
yeast-0-3-5-9-vs-7-8	0.550 ± 0.018 [—]	0.539 ± 0.030 [1,6,7]	0.708 ± 0.073 [1,2,6,7]	0.654 ± 0.066 [1,2,6,7]	0.668 ± 0.066 [1,2,6,7]	0.561 ± 0.034 [7]	0.562 ± 0.043 [—]
glass-0-1-5-vs-2	0.555 ± 0.134 [2]	0.511 ± 0.115 [—]	0.609 ± 0.155 [all]	0.705 ± 0.115 [1,2,6,7]	0.703 ± 0.116 [1,2,6,7]	0.557 ± 0.066 [2]	0.550 ± 0.066 [2]
ecoli-0-6-7-vs-5	0.813 ± 0.124 [2]	0.838 ± 0.103 [—]	0.878 ± 0.096 [1,2,6,7]	0.869 ± 0.102 [1,2,3,6,7]	0.861 ± 0.101 [1,2,3,6,7]	0.803 ± 0.085 [2,7]	0.787 ± 0.099 [2]
ecoli-0-2-3-4-vs-5	0.780 ± 0.098 [7]	0.846 ± 0.094 [6,7]	0.902 ± 0.084 [1,2,6,7]	0.903 ± 0.077 [1,2,6,7]	0.901 ± 0.076 [1,2,6,7]	0.803 ± 0.090 [7]	0.784 ± 0.103 [—]
ecoli4	0.886 ± 0.083 [—]	0.896 ± 0.065 [1,6,7]	0.933 ± 0.066 [1,2,6,7]	0.934 ± 0.081 [1,2,3,6,7]	0.936 ± 0.081 [1,2,6,7]	0.852 ± 0.092 [7]	0.828 ± 0.102 [—]
yeast5	0.825 ± 0.024 [6,7]	0.801 ± 0.029 [6,7]	0.846 ± 0.023 [1,2,6,7]	0.972 ± 0.024 [1,2,3,6,7]	0.972 ± 0.024 [all]	0.915 ± 0.091 [7]	0.909 ± 0.107 [—]
ecoli-0-4-6-vs-5	0.851 ± 0.114 [2]	0.888 ± 0.102 [—]	0.901 ± 0.096 [1,2]	0.901 ± 0.082 [1,2,3,6,7]	0.902 ± 0.082 [1,2,3,6,7]	0.847 ± 0.099 [1,2,3,7]	0.842 ± 0.099 [1,2,3]
led7digit-0-2-4-5-6-7-8-9-vs-1	0.853 ± 0.073 [—]	0.871 ± 0.065 [1,6,7]	0.876 ± 0.067 [1,2,6,7]	0.654 ± 0.091 [1,2,6,7]	0.654 ± 0.091 [1,2,6,7]	0.851 ± 0.064 [7]	0.837 ± 0.062 [—]
ecoli-0-1-vs-5	0.800 ± 0.143 [4,5]	0.853 ± 0.126 [4,5,7]	0.905 ± 0.082 [2,4,5,6,7]	0.900 ± 0.075 [—]	0.903 ± 0.072 [—]	0.897 ± 0.083 [4,5,7]	0.885 ± 0.083 [4,5]
ecoli-0-2-6-7-vs-3-5	0.586 ± 0.145 [—]	0.640 ± 0.156 [1]	0.722 ± 0.130 [1,2,6,7]	0.832 ± 0.102 [1,2,6,7]	0.824 ± 0.104 [1,2,6,7]	0.755 ± 0.114 [1,7]	0.741 ± 0.114 [1]
ecoli-0-1-4-7-vs-2-3-5-6	0.651 ± 0.090 [—]	0.668 ± 0.121 [1]	0.783 ± 0.140 [1,2]	0.828 ± 0.101 [all]	0.856 ± 0.091 [1,2,3,6,7]	0.826 ± 0.097 [1,2,7]	0.843 ± 0.079 [1,2]
shuttle-c0-vs-c4	0.990 ± 0.012 [—]	0.989 ± 0.013 [—]	0.989 ± 0.013 [1,2]	0.993 ± 0.009 [1,2,3]	0.993 ± 0.009 [1,2,3,4,6]	0.993 ± 0.009 [1,2,3]	0.993 ± 0.009 [1,2,3]
ecoli-0-6-7-vs-3-5	0.587 ± 0.158 [—]	0.633 ± 0.171 [—]	0.746 ± 0.132 [—]	0.824 ± 0.102 [1,2,3]	0.822 ± 0.107 [1,2,3]	0.768 ± 0.105 [1,2,3]	0.754 ± 0.114 [1,2,3]
vowel0	0.915 ± 0.037 [—]	0.903 ± 0.024 [1]	0.926 ± 0.028 [1,2]	0.875 ± 0.062 [1,2,3,6,7]	0.915 ± 0.051 [1,2,3,6,7]	0.921 ± 0.029 [1,2,7]	0.916 ± 0.027 [1,2]
glass4	0.572 ± 0.129 [2,4]	0.772 ± 0.145 [4]	0.805 ± 0.145 [2,4,7]	0.764 ± 0.155 [—]	0.771 ± 0.142 [2,4]	0.510 ± 0.132 [2,4]	0.482 ± 0.141 [2,4]
yeast-0-5-6-7-9-vs-4	0.501 ± 0.026 [7]	0.500 ± 0.022 [1,6,7]	0.737 ± 0.127 [1,2,6,7]	0.798 ± 0.051 [1,6,7]	0.804 ± 0.052 [1,6,7]	0.570 ± 0.094 [7]	0.580 ± 0.098 [—]
yeast-0-2-5-6-vs-3-7-8-9	0.675 ± 0.048 [2]	0.776 ± 0.049 [—]	0.777 ± 0.045 [1,2,6,7]	0.720 ± 0.054 [1,2,3,6,7]	0.751 ± 0.057 [1,2,3,6,7]	0.758 ± 0.071 [1,2]	0.785 ± 0.070 [1,2]
ecoli-0-1-vs-2-3-5	0.607 ± 0.157 [—]	0.627 ± 0.170 [1,4,5,6]	0.849 ± 0.119 [1,4,5,6]	0.854 ± 0.098 [1]	0.854 ± 0.098 [1,4]	0.825 ± 0.112 [1,4]	0.823 ± 0.121 [all]
ecoli-0-3-4-vs-5	0.788 ± 0.105 [—]	0.854 ± 0.110 [—]	0.899 ± 0.107 [1,2]	0.909 ± 0.104 [1,2,6,7]	0.904 ± 0.103 [1,2,6,7]	0.781 ± 0.117 [1,2]	0.757 ± 0.112 [1,2]
glass5	0.948 ± 0.103 [—]	0.895 ± 0.155 [1,6,7]	0.885 ± 0.156 [1,2,6,7]	0.893 ± 0.165 [1,2,3,6,7]	0.898 ± 0.156 [1,2,3,6,7]	0.900 ± 0.156 [7]	0.900 ± 0.156 [—]
yeast4	0.551 ± 0.039 [—]	0.525 ± 0.025 [4]	0.595 ± 0.046 [—]	0.805 ± 0.068 [3]	0.809 ± 0.069 [2,3]	0.558 ± 0.085 [2,3,4,5]	0.569 ± 0.110 [2,3,4,5]
glass-0-4-vs-5	0.975 ± 0.083 [2]	0.930 ± 0.119 [—]	0.915 ± 0.125 [1,2,6,7]	0.915 ± 0.146 [1,2,3,6,7]	0.910 ± 0.147 [all]	0.928 ± 0.133 [—]	0.929 ± 0.133 [6]
yeast6	0.636 ± 0.023 [2,3]	0.638 ± 0.023 [—]	0.774 ± 0.031 [—]	0.888 ± 0.056 [—]	0.887 ± 0.056 [—]	0.683 ± 0.052 [—]	0.690 ± 0.053 [—]
page-blocks-1-3-vs-4	0.765 ± 0.095 [—]	0.774 ± 0.102 [—]	0.818 ± 0.126 [1,2,6,7]	0.758 ± 0.106 [all]	0.796 ± 0.108 [1,2,3,6,7]	0.760 ± 0.094 [1,2]	0.772 ± 0.095 [1,2]
yeast-1-vs-7	0.594 ± 0.037 [—]	0.594 ± 0.042 [—]	0.702 ± 0.101 [1,2,4,6,7]	0.664 ± 0.093 [—]	0.656 ± 0.098 [1,2,4,6,7]	0.586 ± 0.043 [—]	0.580 ± 0.037 [1]
ecoli-0-1-3-7-vs-2-6	0.831 ± 0.193 [6,7]	0.845 ± 0.200 [6,7]	0.846 ± 0.199 [all]	0.842 ± 0.203 [1,2,5,6,7]	0.839 ± 0.204 [1,2,6,7]	0.840 ± 0.190 [7]	0.817 ± 0.193 [—]
yeast-1-4-5-8-vs-7	0.544 ± 0.012 [7]	0.546 ± 0.014 [1,6,7]	0.582 ± 0.055 [1,5,6,7]	0.630 ± 0.098 [1,6,7]	0.630 ± 0.098 [1,7]	0.558 ± 0.045 [1,5,7]	0.569 ± 0.049 [—]
ecoli-0-1-4-7-vs-5-6	0.742 ± 0.131 [—]	0.842 ± 0.128 [1]	0.878 ± 0.114 [1,2,6,7]	0.865 ± 0.110 [1,2,3,6,7]	0.870 ± 0.104 [1,2,3,6,7]	0.865 ± 0.081 [1,2]	0.860 ± 0.084 [1,2]
yeast-2-vs-8	0.637 ± 0.090 [—]	0.694 ± 0.078 [1]	0.784 ± 0.111 [1,2]	0.776 ± 0.111 [1,2]	0.776 ± 0.111 [1,2]	0.620 ± 0.111 [1]	0.597 ± 0.096 [1]
yeast-0-2-5-7-9-vs-3-6-8	0.576 ± 0.028 [7]	0.542 ± 0.025 [1,6,7]	0.829 ± 0.097 [all]	0.901 ± 0.034 [1,2,6,7]	0.902 ± 0.034 [1,2,6,7]	0.620 ± 0.048 [7]	0.688 ± 0.143 [—]
glass2	0.607 ± 0.098 [2]	0.618 ± 0.101 [—]	0.648 ± 0.128 [1,2,6,7]	0.740 ± 0.109 [1,2,6,7]	0.739 ± 0.109 [1,2,3,6,7]	0.653 ± 0.072 [1,2,3,6,7]	0.647 ± 0.070 [1,2,6]
	[—]	[—]	[1,2]	[1,2,3,6,7]	[1,2,3,6,7]	[1,7]	[1]

Table 1: Results for BAC metric

	GNB (1)	OSB (2)	OKNORAU (3)	TBAC (4)	OTBAC (5)	TBAW (6)	OTBAW (7)
Mean rank	2.585 [—]	3.134 [1]	5.207 [1,2,6,7]	5.207 [1,2,6,7]	5.354 [1,2,6,7]	3.415 [1]	3.098 [—]

Table 2: Results for mean ranks according to BAC metric

Table 3: Results for F1 metric

Dataset	GNB (1)	OSB (2)	OKNORAU (3)	TBAC (4)	OTBAC (5)	TBAW (6)	OTBAW (7)
glass-0-1-6-vs-2	0.184 ± 0.057 –	0.187 ± 0.062 –	0.210 ± 0.097 1,2	0.303 ± 0.098 1,2,3,6,7	0.304 ± 0.100 1,2,3,6,7	0.199 ± 0.041 1,7	0.198 ± 0.042 1
ecoli-0-3-4-7-vs-5-6	0.414 ± 0.114 –	0.513 ± 0.136 1,6,7	0.759 ± 0.107 1,2,6,7	0.779 ± 0.123 1,2,6,7	0.779 ± 0.123 1,2,6,7	0.469 ± 0.150 1,7	0.394 ± 0.136 1
shuttle-c2-vs-c4	0.881 ± 0.211 6,7	0.990 ± 0.069 1,4,5,6,7	0.990 ± 0.069 1,4,5,6,7	0.700 ± 0.443 6	0.700 ± 0.443 6	0.625 ± 0.416 –	0.659 ± 0.415 –
glass-0-1-4-6-vs-2	0.177 ± 0.060 –	0.178 ± 0.061 –	0.203 ± 0.088 1,2	0.311 ± 0.090 1,2,3,6,7	0.309 ± 0.088 1,2,3,6,7	0.204 ± 0.029 1,7	0.201 ± 0.028 1
yeast-1-2-8-9-vs-7	0.066 ± 0.001 –	0.067 ± 0.001 –	0.076 ± 0.007 1,2	0.169 ± 0.056 1,2,3,6,7	0.169 ± 0.056 1,2,3,6,7	0.079 ± 0.036 1,2,3	0.081 ± 0.036 1,2
ecoli-0-1-4-6-vs-5	0.652 ± 0.214 6,7	0.661 ± 0.184 6,7	0.753 ± 0.176 1,2,6,7	0.805 ± 0.109 1,2,6,7	0.809 ± 0.102 1,2,6,7	0.515 ± 0.185 7	0.466 ± 0.196 –
glass-0-1-6-vs-5	0.807 ± 0.227 6,7	0.763 ± 0.264 –	0.752 ± 0.268 –	0.747 ± 0.264 –	0.747 ± 0.264 –	0.729 ± 0.259 –	0.729 ± 0.259 –
yeast-2-vs-4	0.301 ± 0.222 2	0.247 ± 0.120 –	0.617 ± 0.151 1,2,6,7	0.759 ± 0.111 all	0.736 ± 0.110 1,2,3,6,7	0.268 ± 0.159 –	0.312 ± 0.179 2
glass-0-6-vs-5	0.867 ± 0.273 4,5,6,7	0.841 ± 0.279 4,5,6,7	0.815 ± 0.286 –	0.740 ± 0.335 –	0.740 ± 0.335 –	0.761 ± 0.317 –	0.761 ± 0.317 –
ecoli-0-3-4-6-vs-5	0.384 ± 0.145 –	0.496 ± 0.166 1,6,7	0.756 ± 0.200 1,2,6,7	0.769 ± 0.145 1,2,6,7	0.766 ± 0.143 1,2,6,7	0.429 ± 0.192 7	0.407 ± 0.191 –
yeast-0-3-5-9-vs-7-8	0.196 ± 0.006 2	0.192 ± 0.011 –	0.339 ± 0.070 1,2,6,7	0.394 ± 0.122 1,2,3,6,7	0.408 ± 0.111 1,2,3,6,7	0.200 ± 0.014 2	0.201 ± 0.019 2
glass-0-1-5-vs-2	0.200 ± 0.081 2	0.175 ± 0.057 –	0.240 ± 0.121 1,2,6,7	0.306 ± 0.096 1,2,3,6,7	0.304 ± 0.096 1,2,3,6,7	0.197 ± 0.037 2,7	0.194 ± 0.036 2
ecoli-0-6-7-vs-5	0.610 ± 0.231 2,6,7	0.506 ± 0.148 6,7	0.704 ± 0.176 1,2,6,7	0.764 ± 0.171 1,2,3,6,7	0.752 ± 0.169 1,2,3,6,7	0.429 ± 0.115 7	0.415 ± 0.137 –
ecoli-0-2-3-4-vs-5	0.442 ± 0.170 –	0.553 ± 0.167 1,6,7	0.752 ± 0.160 1,2,6,7	0.801 ± 0.117 1,2,3,6,7	0.800 ± 0.119 1,2,3,6,7	0.468 ± 0.155 7	0.454 ± 0.180 –
ecoli4	0.454 ± 0.158 –	0.451 ± 0.126 –	0.690 ± 0.157 1,2,6,7	0.852 ± 0.141 all	0.822 ± 0.144 1,2,3,6,7	0.483 ± 0.268 7	0.434 ± 0.252 –
yeast5	0.152 ± 0.019 2	0.136 ± 0.018 –	0.169 ± 0.022 1,2	0.610 ± 0.068 1,2,3,6,7	0.610 ± 0.068 1,2,3,6,7	0.457 ± 0.233 1,2,3	0.466 ± 0.236 1,2,3,6
ecoli-0-4-6-vs-5	0.670 ± 0.212 6,7	0.713 ± 0.200 1,6,7	0.782 ± 0.191 1,2,6,7	0.789 ± 0.142 –	0.790 ± 0.140 –	0.571 ± 0.181 7	0.556 ± 0.175 –
led7digit-0-2-4-5-6-7-8-9-vs-1	0.553 ± 0.117 2,4,5,6,7	0.532 ± 0.088 4,5,6,7	0.611 ± 0.129 all	0.387 ± 0.177 –	0.383 ± 0.173 –	0.431 ± 0.077 7	0.407 ± 0.076 –
ecoli-0-1-vs-5	0.667 ± 0.299 –	0.755 ± 0.222 1,7	0.845 ± 0.117 1,2,6,7	0.865 ± 0.102 1,2,6,7	0.869 ± 0.098 1,2,6,7	0.744 ± 0.182 7	0.695 ± 0.183 –
ecoli-0-2-6-7-vs-3-5	0.216 ± 0.296 –	0.322 ± 0.280 1	0.509 ± 0.232 1,2,6,7	0.700 ± 0.170 all	0.682 ± 0.174 1,2,3,6,7	0.441 ± 0.201 1,2,7	0.398 ± 0.165 1
ecoli-0-1-4-7-vs-2-3-5-6	0.426 ± 0.208 –	0.441 ± 0.224 –	0.651 ± 0.244 1,2,7	0.749 ± 0.156 1,2,3,6,7	0.780 ± 0.144 1,2,3,6,7	0.662 ± 0.168 1,2,7	0.528 ± 0.125 1,2
shuttle-c0-vs-c4	0.978 ± 0.022 –	0.978 ± 0.021 –	0.979 ± 0.021 –	0.993 ± 0.009 1,2,3	0.993 ± 0.009 1,2,3	0.993 ± 0.010 1,2,3	0.993 ± 0.010 1,2,3
ecoli-0-6-7-vs-3-5	0.202 ± 0.307 –	0.284 ± 0.289 1	0.550 ± 0.206 1,2,6,7	0.694 ± 0.168 1,2,3,6,7	0.688 ± 0.173 1,2,3,6,7	0.456 ± 0.194 1,2,7	0.420 ± 0.187 1,2
vowel0	0.720 ± 0.049 2,3,6,7	0.590 ± 0.034 –	0.641 ± 0.040 2,7	0.798 ± 0.083 1,2,3,6,7	0.797 ± 0.069 1,2,3,6,7	0.665 ± 0.040 2,3,7	0.581 ± 0.037 –
glass4	0.190 ± 0.222 7	0.432 ± 0.219 1,6,7	0.523 ± 0.229 1,2,6,7	0.483 ± 0.249 1,6,7	0.504 ± 0.230 1,6,7	0.115 ± 0.048 7	0.109 ± 0.045 –
yeast-0-5-6-7-9-vs-4	0.176 ± 0.008 2	0.176 ± 0.007 –	0.356 ± 0.101 1,2,6,7	0.517 ± 0.094 all	0.495 ± 0.094 1,2,3,6,7	0.222 ± 0.089 1,2	0.225 ± 0.082 1,2
yeast-0-2-5-6-vs-3-7-8-9	0.466 ± 0.094 –	0.599 ± 0.079 1,4,6,7	0.605 ± 0.075 1,4,6,7	0.556 ± 0.098 1	0.593 ± 0.091 1,4,7	0.574 ± 0.111 1,7	0.541 ± 0.104 1
ecoli-0-1-vs-2-3-5	0.267 ± 0.338 –	0.307 ± 0.353 –	0.780 ± 0.194 1,2,6,7	0.799 ± 0.151 1,2,6,7	0.799 ± 0.151 1,2,6,7	0.614 ± 0.227 –	0.607 ± 0.240 –
ecoli-0-3-4-vs-5	0.443 ± 0.172 –	0.575 ± 0.174 1,6,7	0.752 ± 0.177 1,2,6,7	0.803 ± 0.160 1,2,3,6,7	0.795 ± 0.161 1,2,3,6,7	0.435 ± 0.169 7	0.396 ± 0.167 –
glass5	0.747 ± 0.183 –	0.684 ± 0.254 –	0.685 ± 0.257 –	0.787 ± 0.299 1,2,3,6,7	0.800 ± 0.278 1,2,3,6,7	0.761 ± 0.270 2,3	0.761 ± 0.270 2,3
yeast4	0.074 ± 0.006 2	0.070 ± 0.004 –	0.082 ± 0.008 1,2	0.330 ± 0.062 all	0.325 ± 0.059 1,2,3,6,7	0.096 ± 0.071 3	0.113 ± 0.097 3,6
glass-0-4-vs-5	0.925 ± 0.170 2,3	0.866 ± 0.196 –	0.846 ± 0.198 –	0.867 ± 0.258 –	0.860 ± 0.258 –	0.879 ± 0.231 –	0.883 ± 0.231 –
yeast6	0.063 ± 0.004 –	0.063 ± 0.004 –	0.109 ± 0.024 1,2,6,7	0.386 ± 0.052 all	0.379 ± 0.052 1,2,3,6,7	0.076 ± 0.038 1,2	0.077 ± 0.038 1,2
page-blocks-1-3-vs-4	0.502 ± 0.143 2	0.493 ± 0.149 –	0.546 ± 0.174 1,2,7	0.551 ± 0.176 1,2,6,7	0.595 ± 0.169 all	0.520 ± 0.149 1,2,7	0.481 ± 0.147 –
yeast-1-vs-7	0.148 ± 0.011 6,7	0.148 ± 0.012 7	0.218 ± 0.060 1,2,6,7	0.245 ± 0.095 1,2,5,6,7	0.222 ± 0.073 1,2,6,7	0.146 ± 0.018 7	0.144 ± 0.014 –
ecoli-0-1-3-7-vs-2-6	0.421 ± 0.251 7	0.627 ± 0.359 1,6,7	0.641 ± 0.360 1,6,7	0.632 ± 0.356 1,6,7	0.597 ± 0.345 1,6,7	0.402 ± 0.241 7	0.342 ± 0.226 –
yeast-1-4-5-8-vs-7	0.090 ± 0.002 –	0.091 ± 0.002 1	0.099 ± 0.011 1,2,6,7	0.145 ± 0.053 1,2,3,6,7	0.145 ± 0.053 1,2,3,6,7	0.094 ± 0.020 1,2	0.097 ± 0.022 1,2
ecoli-0-1-4-7-vs-5-6	0.590 ± 0.239 –	0.704 ± 0.206 1,6,7	0.761 ± 0.189 1,2,6,7	0.780 ± 0.186 1,2,6,7	0.778 ± 0.182 1,2,6,7	0.642 ± 0.156 7	0.521 ± 0.130 –
yeast-2-vs-8	0.193 ± 0.205 2,6,7	0.191 ± 0.160 6,7	0.586 ± 0.181 1,2,6,7	0.665 ± 0.200 1,2,3,6,7	0.665 ± 0.200 1,2,3,6,7	0.172 ± 0.193 7	0.104 ± 0.033 –
yeast-0-2-5-7-9-vs-3-6-8	0.206 ± 0.012 2	0.193 ± 0.010 –	0.499 ± 0.140 1,2,6,7	0.785 ± 0.081 1,2,3,6,7	0.752 ± 0.082 1,2,3,6,7	0.227 ± 0.026 1,2	0.341 ± 0.202 1,2,6
glass2	0.186 ± 0.050 –	0.190 ± 0.052 –	0.222 ± 0.081 1,2,6,7	0.322 ± 0.103 1,2,3,6,7	0.320 ± 0.102 1,2,3,6,7	0.203 ± 0.037 1,7	0.200 ± 0.034 –

Table 3: Results for F1 metric

	GNB (1)	OSB (2)	OKNORAU (3)	TBAC (4)	OTBAC (5)	TBAW (6)	OTBAW (7)
Mean rank	2.659 –	2.890 –	4.768 1,2,6,7	6.085 all	5.720 1,2,3,6,7	3.244 7	2.634 –

Table 4: Results for mean ranks according to F1 metric

Dataset	GNB (1)	OSB (2)	OKNORAU (3)	TBAC (4)	OTBAC (5)	TBAW (6)	OTBAW (7)
glass-0-1-6-vs-2	0.106 ± 0.034 [–]	0.107 ± 0.037 [–]	0.128 ± 0.064 [1,2,6,7]	0.194 ± 0.068 [1,2,3,6,7]	0.194 ± 0.069 [1,2,3,6,7]	0.112 ± 0.024 [7]	0.111 ± 0.025 [–]
ecoli-0-3-4-7-vs-5-6	0.326 ± 0.160 [–]	0.396 ± 0.164 [–]	0.715 ± 0.126 [1,2,6,7]	0.780 ± 0.144 [1,2,3,6,7]	0.780 ± 0.143 [1,2,3,6,7]	0.349 ± 0.168 [7]	0.271 ± 0.135 [–]
shuttle-c2-vs-c4	0.840 ± 0.277 [7]	0.987 ± 0.093 [1,6,7]	0.987 ± 0.093 [1,2,6,7]	0.720 ± 0.448 [1,2,3,6,7]	0.720 ± 0.448 [1,2,3,6,7]	0.610 ± 0.430 [7]	0.653 ± 0.427 [–]
glass-0-1-4-6-vs-2	0.101 ± 0.034 [6,7]	0.101 ± 0.035 [1,4,5,6,7]	0.121 ± 0.053 [1,4,5,6,7]	0.200 ± 0.063 [6]	0.199 ± 0.062 [6]	0.115 ± 0.018 [–]	0.113 ± 0.017 [–]
yeast-1-2-8-9-vs-7	0.034 ± 0.000 [–]	0.034 ± 0.000 [–]	0.040 ± 0.004 [1,2]	0.101 ± 0.034 [1,2,3,6,7]	0.101 ± 0.034 [1,2,3,6,7]	0.043 ± 0.024 [1,7]	0.044 ± 0.024 [–]
ecoli-0-1-4-6-vs-5	0.624 ± 0.271 [–]	0.570 ± 0.226 [–]	0.712 ± 0.218 [1,2]	0.834 ± 0.155 [1,2,3,6,7]	0.836 ± 0.152 [1,2,3,6,7]	0.402 ± 0.216 [1,2,3]	0.354 ± 0.206 [1,2]
glass-0-1-6-vs-5	0.756 ± 0.272 [6,7]	0.745 ± 0.294 [6,7]	0.770 ± 0.299 [1,2,6,7]	0.830 ± 0.289 [1,2,3,6,7]	0.830 ± 0.289 [1,2,3,6,7]	0.797 ± 0.293 [7]	0.797 ± 0.293 [–]
yeast-2-vs-4	0.235 ± 0.270 [–]	0.152 ± 0.101 [–]	0.511 ± 0.154 [2]	0.818 ± 0.143 [2]	0.756 ± 0.142 [2]	0.180 ± 0.175 [–]	0.213 ± 0.170 [–]
glass-0-6-vs-5	0.853 ± 0.284 [2]	0.850 ± 0.287 [–]	0.843 ± 0.293 [1,2,6,7]	0.860 ± 0.346 [all]	0.860 ± 0.346 [1,2,3,6,7]	0.860 ± 0.327 [–]	0.860 ± 0.327 [2]
ecoli-0-3-4-6-vs-5	0.274 ± 0.157 [–]	0.372 ± 0.181 [–]	0.702 ± 0.232 [1,2]	0.744 ± 0.173 [1,2,6,7]	0.739 ± 0.172 [1,2,6,7]	0.321 ± 0.208 [–]	0.301 ± 0.210 [–]
yeast-0-3-5-9-vs-7-8	0.109 ± 0.003 [–]	0.107 ± 0.006 [1,6,7]	0.235 ± 0.066 [1,2,6,7]	0.507 ± 0.180 [1,2,6,7]	0.464 ± 0.145 [1,2,6,7]	0.112 ± 0.008 [7]	0.113 ± 0.012 [–]
glass-0-1-5-vs-2	0.119 ± 0.052 [2]	0.101 ± 0.033 [–]	0.153 ± 0.083 [1,2,6,7]	0.196 ± 0.066 [all]	0.193 ± 0.067 [1,2,3,6,7]	0.110 ± 0.021 [2]	0.109 ± 0.021 [1,2]
ecoli-0-6-7-vs-5	0.597 ± 0.279 [2]	0.387 ± 0.172 [–]	0.655 ± 0.227 [1,2,6,7]	0.803 ± 0.197 [1,2,3,6,7]	0.796 ± 0.196 [1,2,3,6,7]	0.318 ± 0.163 [2,7]	0.319 ± 0.197 [–]
ecoli-0-2-3-4-vs-5	0.337 ± 0.200 [2,6,7]	0.438 ± 0.201 [6,7]	0.694 ± 0.204 [1,2,6,7]	0.799 ± 0.164 [1,2,3,6,7]	0.804 ± 0.174 [1,2,3,6,7]	0.358 ± 0.195 [–]	0.357 ± 0.232 [6]
ecoli4	0.315 ± 0.155 [–]	0.304 ± 0.121 [1,6,7]	0.574 ± 0.192 [1,2,6,7]	0.849 ± 0.171 [1,2,3,6,7]	0.786 ± 0.175 [1,2,3,6,7]	0.416 ± 0.329 [7]	0.355 ± 0.287 [–]
yeast5	0.082 ± 0.011 [–]	0.073 ± 0.010 [–]	0.093 ± 0.013 [1,2,6,7]	0.446 ± 0.069 [all]	0.446 ± 0.069 [1,2,3,6,7]	0.326 ± 0.188 [7]	0.334 ± 0.188 [–]
ecoli-0-4-6-vs-5	0.621 ± 0.241 [6,7]	0.646 ± 0.244 [6,7]	0.767 ± 0.249 [1,2]	0.768 ± 0.181 [1,2,3,6,7]	0.770 ± 0.178 [1,2,3,6,7]	0.462 ± 0.213 [1,2,3]	0.445 ± 0.206 [1,2,3,6]
led7digit-0-2-4-5-6-7-8-9-vs-1	0.428 ± 0.117 [6,7]	0.387 ± 0.082 [6,7]	0.512 ± 0.189 [1,2,6,7]	0.481 ± 0.233 [1,2,6,7]	0.472 ± 0.226 [1,2,6,7]	0.289 ± 0.071 [7]	0.270 ± 0.071 [–]
ecoli-0-1-vs-5	0.785 ± 0.364 [2,6,7]	0.838 ± 0.236 [6,7]	0.907 ± 0.139 [1,2,6,7]	0.960 ± 0.094 [2,6,7]	0.960 ± 0.094 [2,6,7]	0.722 ± 0.263 [7]	0.653 ± 0.263 [–]
ecoli-0-2-6-7-vs-3-5	0.266 ± 0.354 [7]	0.416 ± 0.345 [6,7]	0.635 ± 0.288 [2,6,7]	0.734 ± 0.193 [1,2,3,6,7]	0.717 ± 0.208 [1,2,3,6,7]	0.353 ± 0.235 [7]	0.296 ± 0.188 [–]
ecoli-0-1-4-7-vs-2-3-5-6	0.778 ± 0.304 [–]	0.758 ± 0.295 [1,7]	0.826 ± 0.215 [1,2,6,7]	0.908 ± 0.131 [all]	0.878 ± 0.134 [1,2,6,7]	0.701 ± 0.219 [7]	0.419 ± 0.152 [–]
shuttle-c0-vs-c4	0.976 ± 0.038 [6,7]	0.977 ± 0.035 [7]	0.978 ± 0.035 [2,6,7]	1.000 ± 0.000 [1,2,3,6,7]	1.000 ± 0.000 [2,6,7]	0.999 ± 0.005 [7]	0.999 ± 0.005 [–]
ecoli-0-6-7-vs-3-5	0.219 ± 0.313 [–]	0.348 ± 0.332 [–]	0.691 ± 0.236 [–]	0.746 ± 0.196 [1,2,3]	0.742 ± 0.193 [1,2,3]	0.370 ± 0.242 [1,2,3]	0.319 ± 0.207 [1,2,3]
vowel0	0.610 ± 0.063 [–]	0.434 ± 0.036 [–]	0.484 ± 0.039 [1,2,6,7]	0.851 ± 0.078 [1,2,6,7]	0.750 ± 0.072 [1,2,6,7]	0.521 ± 0.047 [1,7]	0.415 ± 0.034 [–]
glass4	0.207 ± 0.281 [2,3,6,7]	0.377 ± 0.262 [7]	0.473 ± 0.255 [2,7]	0.455 ± 0.282 [all]	0.482 ± 0.273 [1,2,3,6,7]	0.063 ± 0.027 [2,3,7]	0.059 ± 0.024 [–]
yeast-0-5-6-7-9-vs-4	0.097 ± 0.005 [6,7]	0.097 ± 0.004 [1,6,7]	0.232 ± 0.078 [1,2,6,7]	0.426 ± 0.133 [1,2,6,7]	0.382 ± 0.118 [1,2,6,7]	0.132 ± 0.075 [7]	0.133 ± 0.064 [–]
yeast-0-2-5-6-vs-3-7-8-9	0.643 ± 0.115 [2]	0.612 ± 0.088 [–]	0.624 ± 0.089 [1,2,6,7]	0.721 ± 0.104 [all]	0.696 ± 0.098 [1,2,3,6,7]	0.599 ± 0.135 [1,2]	0.468 ± 0.123 [1,2]
ecoli-0-1-vs-2-3-5	0.433 ± 0.470 [2,7]	0.466 ± 0.467 [7]	0.924 ± 0.139 [2,7]	0.953 ± 0.107 [all]	0.953 ± 0.107 [1,2,3,6,7]	0.593 ± 0.305 [7]	0.565 ± 0.304 [–]
ecoli-0-3-4-vs-5	0.335 ± 0.202 [–]	0.462 ± 0.190 [–]	0.701 ± 0.191 [1,2,6,7]	0.793 ± 0.165 [1,2,6,7]	0.788 ± 0.168 [1,2,6,7]	0.338 ± 0.216 [–]	0.308 ± 0.233 [–]
glass5	0.655 ± 0.213 [–]	0.627 ± 0.267 [1,6,7]	0.650 ± 0.281 [1,2,6,7]	0.837 ± 0.315 [1,2,3,6,7]	0.857 ± 0.292 [1,2,3,6,7]	0.767 ± 0.294 [7]	0.767 ± 0.294 [–]
yeast4	0.038 ± 0.003 [–]	0.036 ± 0.002 [–]	0.043 ± 0.004 [–]	0.217 ± 0.043 [1,2,3,6,7]	0.211 ± 0.039 [1,2,3,6,7]	0.054 ± 0.048 [1,2,3]	0.066 ± 0.066 [1,2,3]
glass-0-4-vs-5	0.913 ± 0.195 [2]	0.910 ± 0.200 [–]	0.910 ± 0.200 [1,2]	0.940 ± 0.237 [all]	0.940 ± 0.237 [1,2,3,6,7]	0.933 ± 0.218 [3]	0.940 ± 0.215 [3,6]
yeast6	0.032 ± 0.002 [–]	0.033 ± 0.002 [–]	0.058 ± 0.014 [1,2,6,7]	0.253 ± 0.040 [all]	0.247 ± 0.039 [1,2,3,6,7]	0.040 ± 0.024 [1,2]	0.041 ± 0.024 [1,2]
page-blocks-1-3-vs-4	0.468 ± 0.156 [–]	0.440 ± 0.158 [–]	0.473 ± 0.164 [1,2,6,7]	0.605 ± 0.210 [all]	0.603 ± 0.179 [1,2,3,6,7]	0.525 ± 0.173 [1,2]	0.444 ± 0.176 [1,2]
yeast-1-vs-7	0.080 ± 0.006 [2]	0.080 ± 0.007 [–]	0.127 ± 0.036 [2]	0.168 ± 0.092 [1,2,3,6,7]	0.141 ± 0.046 [1,2,3,6,7]	0.079 ± 0.010 [1,2,3,7]	0.078 ± 0.008 [–]
ecoli-0-1-3-7-vs-2-6	0.353 ± 0.279 [6,7]	0.620 ± 0.387 [7]	0.640 ± 0.384 [1,2,6,7]	0.634 ± 0.387 [all]	0.590 ± 0.383 [1,2,3,6,7]	0.311 ± 0.238 [7]	0.273 ± 0.254 [–]
yeast-1-4-5-8-vs-7	0.047 ± 0.001 [7]	0.048 ± 0.001 [1,6,7]	0.052 ± 0.006 [1,6,7]	0.085 ± 0.031 [1,6,7]	0.085 ± 0.031 [1,6,7]	0.049 ± 0.012 [7]	0.052 ± 0.013 [–]
ecoli-0-1-4-7-vs-5-6	0.838 ± 0.239 [–]	0.746 ± 0.193 [1]	0.768 ± 0.190 [1,2,6,7]	0.862 ± 0.184 [1,2,3,6,7]	0.842 ± 0.193 [1,2,3,6,7]	0.579 ± 0.201 [1,2]	0.395 ± 0.134 [1,2]
yeast-2-vs-8	0.171 ± 0.241 [2,3,6,7]	0.150 ± 0.191 [6,7]	0.683 ± 0.256 [2,6,7]	0.911 ± 0.189 [2,3,6,7]	0.911 ± 0.189 [2,3,6,7]	0.141 ± 0.226 [7]	0.056 ± 0.020 [–]
yeast-0-2-5-7-9-vs-3-6-8	0.115 ± 0.007 [2,6,7]	0.107 ± 0.006 [6,7]	0.362 ± 0.132 [1,2,6,7]	0.757 ± 0.132 [1,2,3,6,7]	0.688 ± 0.123 [1,2,3,6,7]	0.129 ± 0.017 [7]	0.234 ± 0.185 [–]
glass2	0.106 ± 0.029 [–]	0.108 ± 0.030 [–]	0.133 ± 0.052 [1,2,6,7]	0.210 ± 0.078 [1,2,3,6,7]	0.209 ± 0.078 [1,2,3,6,7]	0.114 ± 0.022 [7]	0.112 ± 0.020 [–]

Table 5: Results for Precision metric

	GNB (1)	OSB (2)	OKNORAU (3)	TBAC (4)	OTBAC (5)	TBAW (6)	OTBAW (7)
Mean rank	2.561 [–]	2.537 [–]	4.537 [1,2,6,7]	6.561 [all]	6.073 [1,2,3,6,7]	3.098 [2,7]	2.634 [–]

Table 6: Results for mean ranks according to Precision metric

Dataset	GNB (1)	OSB (2)	OKNORAU (3)	TBAC (4)	OTBAC (5)	TBAW (6)	OTBAW (7)
glass-0-1-6-vs-2	0.737 ± 0.215 [3]	0.778 ± 0.244 [3]	0.640 ± 0.258 [−]	0.735 ± 0.222 [3]	0.740 ± 0.225 [3]	0.915 ± 0.153 [1,2,3,4,5]	0.920 ± 0.151 [1,2,3,4,5]
ecoli-0-3-4-7-vs-5-6	0.792 ± 0.236 [−]	0.844 ± 0.180 [4,5]	0.832 ± 0.151 [−]	0.796 ± 0.152 [−]	0.796 ± 0.152 [−]	0.876 ± 0.154 [1,3,4,5]	0.900 ± 0.139 [1,2,3,4,5]
shuttle-c2-vs-c4	1.000 ± 0.000 [4,5,6,7]	1.000 ± 0.000 [4,5,6,7]	1.000 ± 0.000 [4,5,6,7]	0.690 ± 0.445 [−]	0.690 ± 0.445 [−]	0.690 ± 0.445 [−]	0.700 ± 0.435 [−]
glass-0-1-4-6-vs-2	0.745 ± 0.267 [3]	0.763 ± 0.273 [3]	0.655 ± 0.286 [−]	0.730 ± 0.195 [−]	0.730 ± 0.195 [−]	0.938 ± 0.110 [1,2,3,4,5]	0.938 ± 0.110 [1,2,3,4,5]
yeast-1-2-8-9-vs-7	1.000 ± 0.000 [3,4,5,6,7]	1.000 ± 0.000 [3,4,5,6,7]	0.927 ± 0.106 [4,5]	0.520 ± 0.172 [−]	0.520 ± 0.172 [−]	0.897 ± 0.228 [4,5]	0.887 ± 0.239 [4,5]
ecoli-0-1-4-6-vs-5	0.750 ± 0.173 [−]	0.850 ± 0.150 [1]	0.840 ± 0.164 [1]	0.815 ± 0.164 [1]	0.820 ± 0.158 [1]	0.860 ± 0.133 [1]	0.870 ± 0.134 [1,4,5]
glass-0-1-6-vs-5	0.930 ± 0.223 [3,4,5,6,7]	0.840 ± 0.290 [4,5,6,7]	0.790 ± 0.301 [−]	0.730 ± 0.303 [−]	0.730 ± 0.303 [−]	0.730 ± 0.303 [−]	0.730 ± 0.303 [−]
yeast-2-vs-4	0.921 ± 0.100 [3,4,5]	0.936 ± 0.083 [3,4,5,6]	0.838 ± 0.106 [4,5]	0.731 ± 0.142 [−]	0.743 ± 0.142 [−]	0.900 ± 0.105 [3,4,5]	0.922 ± 0.090 [3,4,5,6]
glass-0-6-vs-5	0.900 ± 0.282 [4,5,6,7]	0.860 ± 0.300 [4,5,6,7]	0.820 ± 0.312 [4,5]	0.680 ± 0.357 [−]	0.680 ± 0.357 [−]	0.720 ± 0.348 [−]	0.720 ± 0.348 [−]
ecoli-0-3-4-6-vs-5	0.840 ± 0.171 [−]	0.860 ± 0.159 [−]	0.850 ± 0.173 [−]	0.820 ± 0.166 [−]	0.820 ± 0.166 [−]	0.855 ± 0.166 [−]	0.865 ± 0.159 [−]
yeast-0-3-5-9-vs-7-8	0.992 ± 0.033 [3,4,5,6,7]	0.974 ± 0.059 [3,4,5,6,7]	0.682 ± 0.176 [4,5]	0.350 ± 0.144 [−]	0.392 ± 0.146 [4]	0.934 ± 0.095 [3,4,5]	0.934 ± 0.105 [3,4,5]
glass-0-1-5-vs-2	0.675 ± 0.253 [3]	0.700 ± 0.244 [3]	0.605 ± 0.277 [−]	0.745 ± 0.238 [3]	0.745 ± 0.238 [3]	0.925 ± 0.154 [1,2,3,4,5]	0.925 ± 0.154 [1,2,3,4,5]
ecoli-0-6-7-vs-5	0.720 ± 0.210 [−]	0.845 ± 0.179 [1,4,5]	0.815 ± 0.171 [1,4,5]	0.760 ± 0.199 [−]	0.745 ± 0.196 [−]	0.840 ± 0.185 [1,4,5]	0.830 ± 0.196 [1,4,5]
ecoli-0-2-3-4-vs-5	0.830 ± 0.153 [−]	0.850 ± 0.150 [−]	0.855 ± 0.150 [−]	0.835 ± 0.155 [−]	0.830 ± 0.153 [−]	0.855 ± 0.158 [−]	0.845 ± 0.157 [−]
ecoli4	0.940 ± 0.106 [4,5]	0.950 ± 0.099 [4,5]	0.920 ± 0.116 [−]	0.880 ± 0.160 [−]	0.890 ± 0.159 [−]	0.930 ± 0.150 [4]	0.930 ± 0.150 [4]
yeast5	0.996 ± 0.031 [−]	0.996 ± 0.031 [−]	0.996 ± 0.031 [−]	0.982 ± 0.046 [−]	0.982 ± 0.046 [−]	0.984 ± 0.044 [−]	0.984 ± 0.044 [−]
ecoli-0-4-6-vs-5	0.780 ± 0.184 [−]	0.850 ± 0.158 [1]	0.845 ± 0.165 [1]	0.835 ± 0.155 [1]	0.835 ± 0.155 [1]	0.840 ± 0.156 [1]	0.850 ± 0.150 [1]
led7digit-0-2-4-5-6-7-8-9-vs-1	0.816 ± 0.137 [4,5]	0.874 ± 0.127 [1,3,4,5]	0.845 ± 0.138 [4,5]	0.345 ± 0.179 [−]	0.345 ± 0.179 [−]	0.930 ± 0.143 [1,2,3,4,5]	0.925 ± 0.142 [1,2,3,4,5]
ecoli-0-1-vs-5	0.620 ± 0.279 [−]	0.720 ± 0.248 [1]	0.820 ± 0.166 [1,2]	0.805 ± 0.152 [1]	0.810 ± 0.146 [1]	0.845 ± 0.157 [1,2]	0.840 ± 0.156 [1,2]
ecoli-0-2-6-7-vs-3-5	0.199 ± 0.290 [−]	0.315 ± 0.325 [−]	0.476 ± 0.266 [1]	0.695 ± 0.198 [1,2]	0.682 ± 0.203 [1,2]	0.764 ± 0.155 [1,2,3]	0.789 ± 0.141 [1,2,3]
ecoli-0-1-4-7-vs-2-3-5-6	0.308 ± 0.178 [−]	0.346 ± 0.245 [1]	0.575 ± 0.279 [1,2]	0.663 ± 0.201 [1,2,3]	0.722 ± 0.182 [1,2,3,4,5]	0.699 ± 0.205 [1,2,3]	0.826 ± 0.175 [1,2,3,4,5]
shuttle-c0-vs-c4	0.982 ± 0.025 [−]	0.980 ± 0.027 [−]	0.980 ± 0.027 [1,2]	0.987 ± 0.019 [1,2,3]	0.987 ± 0.019 [1,2,3,4]	0.987 ± 0.019 [1,2,3,4]	0.987 ± 0.019 [all]
ecoli-0-6-7-vs-3-5	0.199 ± 0.320 [−]	0.297 ± 0.359 [−]	0.520 ± 0.276 [−]	0.677 ± 0.200 [1,2]	0.672 ± 0.209 [1,2]	0.770 ± 0.150 [1,2,3,4,5]	0.787 ± 0.152 [1,2,3,4,5]
vowel0	0.889 ± 0.081 [−]	0.929 ± 0.053 [1]	0.954 ± 0.058 [1,2]	0.763 ± 0.126 [1,2,3]	0.859 ± 0.102 [1,2,3]	0.929 ± 0.064 [1,2,3,4,5]	0.970 ± 0.054 [1,2,3,4,5]
glass4	0.210 ± 0.244 [4]	0.637 ± 0.280 [1,4,5]	0.667 ± 0.288 [1,2,4,5,6]	0.580 ± 0.302 [−]	0.593 ± 0.275 [4]	0.670 ± 0.250 [1,4,5]	0.693 ± 0.252 [all]
yeast-0-5-6-7-9-vs-4	0.969 ± 0.045 [−]	0.977 ± 0.041 [1]	0.871 ± 0.109 [1]	0.721 ± 0.111 [−]	0.758 ± 0.108 [1]	0.947 ± 0.097 [1,4,5]	0.946 ± 0.095 [1,4,5]
yeast-0-2-5-6-vs-3-7-8-9	0.372 ± 0.096 [3,4,5]	0.595 ± 0.099 [3,4,5,7]	0.595 ± 0.090 [4,5]	0.460 ± 0.109 [−]	0.527 ± 0.117 [4]	0.592 ± 0.129 [3,4,5]	0.692 ± 0.112 [3,4,5]
ecoli-0-1-vs-2-3-5	0.218 ± 0.314 [−]	0.260 ± 0.340 [1,4,5]	0.704 ± 0.235 [1,4,5,6]	0.712 ± 0.196 [1]	0.712 ± 0.196 [1,4]	0.771 ± 0.177 [1,4,5]	0.789 ± 0.158 [all]
ecoli-0-3-4-vs-5	0.845 ± 0.186 [−]	0.850 ± 0.193 [1]	0.845 ± 0.205 [1,2]	0.845 ± 0.205 [1,2]	0.835 ± 0.203 [1,2]	0.855 ± 0.200 [1,2,4,5]	0.855 ± 0.194 [1,2,4,5]
glass5	0.920 ± 0.208 [−]	0.810 ± 0.314 [−]	0.790 ± 0.317 [−]	0.790 ± 0.333 [−]	0.800 ± 0.316 [−]	0.810 ± 0.314 [−]	0.810 ± 0.314 [−]
yeast4	0.961 ± 0.057 [3,4,5]	0.971 ± 0.048 [3,4,5]	0.944 ± 0.067 [4,5]	0.703 ± 0.140 [−]	0.714 ± 0.143 [−]	0.943 ± 0.124 [4,5]	0.927 ± 0.133 [4,5]
glass-0-4-vs-5	0.960 ± 0.168 [3,4,5]	0.870 ± 0.241 [3,4,5,7]	0.840 ± 0.253 [4,5]	0.830 ± 0.293 [−]	0.820 ± 0.295 [−]	0.860 ± 0.265 [4,5]	0.860 ± 0.265 [4,5]
yeast6	0.986 ± 0.042 [all]	0.991 ± 0.033 [−]	0.937 ± 0.086 [−]	0.837 ± 0.117 [−]	0.837 ± 0.117 [−]	1.000 ± 0.000 [−]	1.000 ± 0.000 [−]
page-blocks-1-3-vs-4	0.576 ± 0.190 [3,4,5]	0.600 ± 0.205 [3,4,5]	0.687 ± 0.252 [4,5]	0.541 ± 0.209 [−]	0.620 ± 0.216 [−]	0.559 ± 0.200 [3,4,5]	0.611 ± 0.218 [3,4,5]
yeast-1-vs-7	0.973 ± 0.077 [4]	0.970 ± 0.086 [4]	0.793 ± 0.209 [all]	0.540 ± 0.206 [−]	0.543 ± 0.212 [1,4,6]	0.973 ± 0.069 [−]	0.967 ± 0.074 [4,6]
ecoli-0-1-3-7-vs-2-6	0.700 ± 0.400 [3,4,5]	0.700 ± 0.400 [3,4,5]	0.700 ± 0.400 [4,5]	0.700 ± 0.400 [−]	0.700 ± 0.400 [−]	0.730 ± 0.389 [3,4,5]	0.700 ± 0.400 [3,4,5]
yeast-1-4-5-8-vs-7	1.000 ± 0.000 [−]	1.000 ± 0.000 [−]	0.910 ± 0.125 [4,5]	0.513 ± 0.193 [−]	0.513 ± 0.193 [−]	0.947 ± 0.174 [3,4,5]	0.930 ± 0.188 [4,5]
ecoli-0-1-4-7-vs-5-6	0.492 ± 0.259 [−]	0.704 ± 0.256 [1]	0.776 ± 0.224 [1]	0.740 ± 0.220 [1]	0.752 ± 0.209 [1]	0.796 ± 0.162 [1,2,4]	0.856 ± 0.155 [all]
yeast-2-vs-8	0.890 ± 0.218 [3,4,5]	0.870 ± 0.213 [1]	0.585 ± 0.232 [1,2]	0.555 ± 0.219 [1]	0.555 ± 0.219 [1]	0.880 ± 0.188 [1,2,4]	0.900 ± 0.173 [all]
yeast-0-2-5-7-9-vs-3-6-8	0.986 ± 0.031 [3,4,5]	0.987 ± 0.026 [3,4,5]	0.905 ± 0.074 [−]	0.836 ± 0.077 [−]	0.853 ± 0.078 [−]	0.976 ± 0.035 [3,4,5]	0.952 ± 0.044 [3,4,5]
glass2	0.773 ± 0.200 [−]	0.823 ± 0.209 [3,4,5]	0.725 ± 0.235 [−]	0.732 ± 0.198 [−]	0.732 ± 0.198 [−]	0.940 ± 0.121 [1,2,3,4,5]	0.940 ± 0.121 [1,2,3,4,5]

Table 7: Results for Recall metric

	GNB (1)	OSB (2)	OKNORAU (3)	TBAC (4)	OTBAC (5)	TBAW (6)	OTBAW (7)
Mean rank	3.744 [4,5]	4.878 [1,3,4,5]	3.732 [4,5]	2.293 [−]	2.683 [4]	5.183 [1,3,4,5]	5.488 [1,3,4,5]

Table 8: Results for mean ranks according to Recall metric

Table 9 (Results for AUC metric). Each cell shows the mean AUC ± standard deviation, with the significance markers (methods significantly outperformed, indicated by their numeric index, or "–"/"all") given as a superscript.

Dataset	GNB (1)	OSB (2)	OKNORAU (3)	TBAC (4)	OTBAC (5)	TBAW (6)	OTBAW (7)
glass-0-1-6-vs-2	0.565 ± 0.111 [–]	0.573 ± 0.119 [–]	0.598 ± 0.141 [1,2]	0.715 ± 0.115 [1,2,3,6,7]	0.716 ± 0.116 [1,2,3,6,7]	0.602 ± 0.083 [1,7]	0.601 ± 0.083 [1]
ecoli-0-3-4-7-vs-5-6	0.778 ± 0.080 [–]	0.837 ± 0.083 [1]	0.897 ± 0.075 [1,2,6,7]	0.885 ± 0.078 [1,2,6,7]	0.885 ± 0.078 [1,2,6,7]	0.818 ± 0.087 [1,7]	0.776 ± 0.094 [–]
shuttle-c2-vs-c4	0.988 ± 0.022 [4,5,6,7]	0.999 ± 0.005 [1,4,5,6,7]	0.999 ± 0.005 [1,4,5,6,7]	0.845 ± 0.222 [6,7]	0.845 ± 0.222 [6,7]	0.836 ± 0.225 [–]	0.845 ± 0.217 [–]
glass-0-1-4-6-vs-2	0.579 ± 0.128 [–]	0.582 ± 0.129 [–]	0.610 ± 0.154 [1,2]	0.727 ± 0.104 [1,2,3,6,7]	0.727 ± 0.103 [1,2,3,6,7]	0.640 ± 0.073 [1,7]	0.635 ± 0.072 [1]
yeast-1-2-8-9-vs-7	0.540 ± 0.011 [–]	0.541 ± 0.012 [–]	0.597 ± 0.048 [1,2]	0.683 ± 0.087 [1,2,3,6,7]	0.683 ± 0.086 [1,2,3,6,7]	0.572 ± 0.054 [1,2]	0.579 ± 0.053 [1,2]
ecoli-0-1-4-6-vs-5	0.847 ± 0.098 [–]	0.891 ± 0.088 [1,6,7]	0.902 ± 0.087 [1,2,6,7]	0.899 ± 0.079 [1,2,6,7]	0.902 ± 0.076 [1,2,6,7]	0.858 ± 0.076 [7]	0.834 ± 0.093 [–]
glass-0-1-6-vs-5	0.956 ± 0.109 [4,5,6,7]	0.912 ± 0.144 [–]	0.888 ± 0.151 [–]	0.861 ± 0.151 [–]	0.861 ± 0.151 [–]	0.860 ± 0.150 [–]	0.860 ± 0.150 [–]
yeast-2-vs-4	0.608 ± 0.128 [–]	0.591 ± 0.122 [–]	0.852 ± 0.098 [1,2,6,7]	0.855 ± 0.071 [1,2,6,7]	0.856 ± 0.070 [1,2,4,6,7]	0.617 ± 0.104 [–]	0.653 ± 0.138 [2]
glass-0-6-vs-5	0.945 ± 0.140 [2]	0.925 ± 0.149 [–]	0.905 ± 0.156 [–]	0.840 ± 0.178 [–]	0.840 ± 0.178 [–]	0.858 ± 0.173 [–]	0.858 ± 0.173 [2]
ecoli-0-3-4-6-vs-5	0.755 ± 0.102 [–]	0.827 ± 0.099 [1,6,7]	0.899 ± 0.104 [1,2,6,7]	0.893 ± 0.087 [1,2,6,7]	0.892 ± 0.086 [1,2,6,7]	0.770 ± 0.123 [–]	0.757 ± 0.119 [–]
yeast-0-3-5-9-vs-7-8	0.550 ± 0.018 [–]	0.539 ± 0.030 [–]	0.708 ± 0.073 [1,2,6,7]	0.654 ± 0.066 [1,2]	0.668 ± 0.066 [1,2,6,7]	0.561 ± 0.034 [–]	0.562 ± 0.043 [–]
glass-0-1-5-vs-2	0.555 ± 0.134 [2]	0.511 ± 0.115 [–]	0.609 ± 0.155 [1,2]	0.705 ± 0.115 [1,2,6,7]	0.703 ± 0.116 [1,2,6,7]	0.557 ± 0.066 [2]	0.550 ± 0.066 [2]
ecoli-0-6-7-vs-5	0.813 ± 0.124 [2]	0.838 ± 0.103 [–]	0.878 ± 0.096 [1,2,6,7]	0.869 ± 0.102 [1,2,6,7]	0.861 ± 0.101 [1,2,6,7]	0.803 ± 0.085 [2,7]	0.787 ± 0.099 [2]
ecoli-0-2-3-4-vs-5	0.780 ± 0.098 [–]	0.846 ± 0.094 [1,6,7]	0.902 ± 0.084 [1,2,6,7]	0.903 ± 0.077 [1,2,6,7]	0.901 ± 0.076 [1,2,6,7]	0.803 ± 0.090 [7]	0.784 ± 0.103 [–]
ecoli4	0.886 ± 0.083 [6,7]	0.896 ± 0.065 [6,7]	0.933 ± 0.066 [1,2,6,7]	0.934 ± 0.081 [1,2,3,6,7]	0.936 ± 0.081 [all]	0.852 ± 0.092 [7]	0.828 ± 0.102 [–]
yeast5	0.825 ± 0.024 [2]	0.801 ± 0.029 [–]	0.846 ± 0.023 [1,2]	0.972 ± 0.024 [1,2,3,6,7]	0.972 ± 0.024 [1,2,3,6,7]	0.915 ± 0.091 [1,2,3]	0.909 ± 0.107 [1,2,3]
ecoli-0-4-6-vs-5	0.851 ± 0.114 [–]	0.888 ± 0.102 [1,6,7]	0.901 ± 0.096 [1,2,6,7]	0.901 ± 0.082 [1,2,6,7]	0.902 ± 0.082 [1,2,6,7]	0.847 ± 0.099 [–]	0.842 ± 0.099 [–]
led7digit-0-2-4-5-6-7-8-9-vs-1	0.853 ± 0.073 [4,5,7]	0.871 ± 0.065 [4,5,7]	0.876 ± 0.067 [1,4,5,7]	0.654 ± 0.091 [–]	0.654 ± 0.091 [–]	0.851 ± 0.064 [4,5]	0.837 ± 0.062 [4,5]
ecoli-0-1-vs-5	0.800 ± 0.143 [–]	0.853 ± 0.126 [4,5,7]	0.905 ± 0.082 [2,4,5,6,7]	0.900 ± 0.075 [–]	0.903 ± 0.072 [–]	0.897 ± 0.083 [4,5,7]	0.885 ± 0.083 [4,5]
ecoli-0-2-6-7-vs-3-5	0.586 ± 0.145 [–]	0.640 ± 0.156 [1]	0.722 ± 0.130 [1,2]	0.832 ± 0.102 [all]	0.824 ± 0.104 [1,2,3,6,7]	0.755 ± 0.114 [1,2]	0.741 ± 0.114 [1,2]
ecoli-0-1-4-7-vs-2-3-5-6	0.651 ± 0.090 [–]	0.668 ± 0.121 [–]	0.783 ± 0.140 [1,2]	0.828 ± 0.101 [1,2,3]	0.856 ± 0.091 [1,2,3,4,6]	0.826 ± 0.097 [1,2,3]	0.843 ± 0.079 [1,2,3]
shuttle-c0-vs-c4	0.990 ± 0.012 [–]	0.989 ± 0.013 [–]	0.989 ± 0.013 [1,2]	0.993 ± 0.009 [1,2,3]	0.993 ± 0.009 [1,2,3]	0.993 ± 0.009 [1,2,3]	0.993 ± 0.009 [1,2,3]
ecoli-0-6-7-vs-3-5	0.587 ± 0.158 [–]	0.633 ± 0.171 [–]	0.746 ± 0.132 [1,2]	0.824 ± 0.102 [1,2,3]	0.822 ± 0.107 [1,2,3]	0.768 ± 0.105 [1,2,3]	0.754 ± 0.114 [1,2,3]
vowel0	0.915 ± 0.037 [–]	0.903 ± 0.024 [–]	0.926 ± 0.028 [1,2]	0.875 ± 0.062 [–]	0.915 ± 0.051 [–]	0.921 ± 0.029 [1,2]	0.916 ± 0.027 [–]
glass4	0.572 ± 0.129 [6,7]	0.772 ± 0.145 [1,6,7]	0.805 ± 0.145 [1,6,7]	0.764 ± 0.155 [1,6,7]	0.771 ± 0.142 [1,6,7]	0.510 ± 0.132 [7]	0.482 ± 0.141 [–]
yeast-0-5-6-7-9-vs-4	0.501 ± 0.026 [–]	0.500 ± 0.022 [–]	0.737 ± 0.127 [1,2,6,7]	0.798 ± 0.051 [1,2,6,7]	0.804 ± 0.052 [1,2,6,7]	0.570 ± 0.094 [1,2]	0.580 ± 0.098 [1,2]
yeast-0-2-5-6-vs-3-7-8-9	0.675 ± 0.048 [–]	0.776 ± 0.049 [1]	0.777 ± 0.045 [1,4]	0.720 ± 0.054 [1]	0.751 ± 0.057 [1,4]	0.758 ± 0.071 [1,4]	0.785 ± 0.070 [1,4]
ecoli-0-1-vs-2-3-5	0.607 ± 0.157 [–]	0.627 ± 0.170 [–]	0.849 ± 0.119 [1,2]	0.854 ± 0.098 [1,2]	0.854 ± 0.098 [1,2]	0.825 ± 0.112 [1,2]	0.823 ± 0.121 [1,2]
ecoli-0-3-4-vs-5	0.788 ± 0.105 [–]	0.854 ± 0.110 [1,6,7]	0.899 ± 0.107 [1,2,6,7]	0.909 ± 0.104 [1,2,6,7]	0.904 ± 0.103 [1,2,6,7]	0.781 ± 0.117 [–]	0.757 ± 0.112 [–]
glass5	0.948 ± 0.103 [–]	0.895 ± 0.155 [–]	0.885 ± 0.156 [–]	0.893 ± 0.165 [–]	0.898 ± 0.156 [–]	0.900 ± 0.156 [–]	0.900 ± 0.156 [–]
yeast4	0.551 ± 0.039 [–]	0.525 ± 0.025 [–]	0.595 ± 0.046 [1,2]	0.805 ± 0.068 [1,2,3,6,7]	0.809 ± 0.069 [1,2,3,6,7]	0.558 ± 0.085 [2,3]	0.569 ± 0.110 [2,3]
glass-0-4-vs-5	0.975 ± 0.083 [–]	0.930 ± 0.119 [–]	0.915 ± 0.125 [–]	0.915 ± 0.146 [–]	0.910 ± 0.147 [–]	0.928 ± 0.133 [–]	0.929 ± 0.133 [–]
yeast6	0.636 ± 0.023 [–]	0.638 ± 0.023 [–]	0.774 ± 0.031 [1,2,6,7]	0.888 ± 0.056 [1,2,3,6,7]	0.887 ± 0.056 [1,2,3,6,7]	0.683 ± 0.052 [–]	0.690 ± 0.053 [–]
page-blocks-1-3-vs-4	0.765 ± 0.095 [–]	0.774 ± 0.102 [–]	0.818 ± 0.126 [1,2,4,6,7]	0.758 ± 0.106 [–]	0.796 ± 0.108 [1,2,4,6,7]	0.760 ± 0.094 [–]	0.772 ± 0.095 [1]
yeast-1-vs-7	0.594 ± 0.037 [–]	0.594 ± 0.042 [–]	0.702 ± 0.101 [1,2,4,5,6,7]	0.664 ± 0.093 [–]	0.656 ± 0.098 [1,2,4,6,7]	0.586 ± 0.043 [–]	0.580 ± 0.037 [1]
ecoli-0-1-3-7-vs-2-6	0.831 ± 0.193 [–]	0.845 ± 0.200 [–]	0.846 ± 0.199 [7]	0.842 ± 0.203 [–]	0.839 ± 0.204 [7]	0.840 ± 0.190 [–]	0.817 ± 0.193 [–]
yeast-1-4-5-8-vs-7	0.544 ± 0.012 [–]	0.546 ± 0.014 [–]	0.582 ± 0.055 [1,2]	0.630 ± 0.098 [1,2,6,7]	0.630 ± 0.098 [1,2,6,7]	0.558 ± 0.045 [–]	0.569 ± 0.049 [–]
ecoli-0-1-4-7-vs-5-6	0.742 ± 0.131 [–]	0.842 ± 0.128 [1]	0.878 ± 0.114 [1,2,6,7]	0.865 ± 0.110 [1,2,3,6,7]	0.870 ± 0.104 [1,2,3,6,7]	0.865 ± 0.081 [1,2]	0.860 ± 0.084 [1,2]
yeast-2-vs-8	0.637 ± 0.090 [–]	0.694 ± 0.078 [1]	0.784 ± 0.111 [1,2,6,7]	0.776 ± 0.111 [1,2,6,7]	0.776 ± 0.111 [1,2,6,7]	0.620 ± 0.111 [1]	0.597 ± 0.096 [1]
yeast-0-2-5-7-9-vs-3-6-8	0.576 ± 0.028 [–]	0.542 ± 0.025 [–]	0.829 ± 0.097 [1,2,6,7]	0.901 ± 0.034 [1,2,6,7]	0.902 ± 0.034 [1,2,6,7]	0.620 ± 0.048 [1,2]	0.688 ± 0.143 [1,2]
glass2	0.607 ± 0.098 [–]	0.618 ± 0.101 [–]	0.648 ± 0.128 [1,2]	0.740 ± 0.109 [1,2,3,6,7]	0.739 ± 0.109 [1,2,3,6,7]	0.653 ± 0.072 [1,2]	0.647 ± 0.070 [1,2,6]

Table 9: Results for AUC metric

	GNB (1)	OSB (2)	OKNORAU (3)	TBAC (4)	OTBAC (5)	TBAW (6)	OTBAW (7)
Mean rank	2.585 [–]	3.134 [1]	5.207 [1,2,6,7]	5.195 [1,2,6,7]	5.366 [1,2,6,7]	3.415 [1]	3.098 [–]

Table 10: Results for mean ranks according to AUC metric

5

Dataset	GNB (1)	OSB (2)	OKNORAU (3)	TBAC (4)	OTBAC (5)	TBAW (6)	OTBAW (7)
glass-0-1-6-vs-2	0.524 ± 0.114 [6,7]	0.515 ± 0.130 [7]	0.568 ± 0.183 [1,2,6,7]	0.703 ± 0.121 [1,2,3,6,7]	0.705 ± 0.122 [1,2,3,6,7]	0.509 ± 0.078 [7]	0.503 ± 0.078 [—]
ecoli-0-3-4-7-vs-5-6	0.756 ± 0.105 [—]	0.828 ± 0.090 [1,6,7]	0.890 ± 0.083 [1,2,6,7]	0.876 ± 0.086 [1,2,6,7]	0.876 ± 0.086 [1,2,6,7]	0.806 ± 0.094 [1,7]	0.751 ± 0.113 [—]
shuttle-c2-vs-c4	0.988 ± 0.023 [4,5,6,7]	0.999 ± 0.005 [1,4,5,6,7]	0.999 ± 0.005 [1,4,5,6,7]	0.702 ± 0.443 [6]	0.702 ± 0.443 [6]	0.697 ± 0.439 [—]	0.713 ± 0.429 [—]
glass-0-1-4-6-vs-2	0.528 ± 0.145 [—]	0.526 ± 0.144 [—]	0.579 ± 0.190 [1,2,7]	0.719 ± 0.109 [1,2,3,6,7]	0.718 ± 0.107 [1,2,3,6,7]	0.560 ± 0.088 [7]	0.551 ± 0.088 [—]
yeast-1-2-8-9-vs-7	0.281 ± 0.039 [—]	0.284 ± 0.042 [1,6,7]	0.493 ± 0.042 [1,2,6,7]	0.653 ± 0.116 [1,2,3,6,7]	0.653 ± 0.116 [1,2,3,6,7]	0.394 ± 0.116 [1,2]	0.413 ± 0.117 [1,2]
ecoli-0-1-4-6-vs-5	0.835 ± 0.108 [—]	0.887 ± 0.092 [1,6,7]	0.896 ± 0.096 [1,2,6,7]	0.890 ± 0.090 [1,2,6,7]	0.894 ± 0.087 [1,2,6,7]	0.853 ± 0.078 [7]	0.826 ± 0.096 [—]
glass-0-1-6-vs-5	0.933 ± 0.202 [4,5,6,7]	0.874 ± 0.249 [—]	0.846 ± 0.251 [—]	0.814 ± 0.249 [—]	0.814 ± 0.249 [—]	0.813 ± 0.248 [—]	0.813 ± 0.248 [—]
yeast-2-vs-4	0.445 ± 0.216 [2]	0.413 ± 0.215 [—]	0.840 ± 0.126 [1,2,6,7]	0.842 ± 0.084 [1,2,6,7]	0.844 ± 0.084 [1,2,4,6,7]	0.506 ± 0.170 [2]	0.540 ± 0.216 [2]
glass-0-6-vs-5	0.903 ± 0.272 [4,5,6,7]	0.880 ± 0.276 [4,5,6,7]	0.857 ± 0.278 [—]	0.755 ± 0.332 [—]	0.755 ± 0.332 [—]	0.785 ± 0.318 [—]	0.785 ± 0.318 [—]
ecoli-0-3-4-6-vs-5	0.735 ± 0.109 [—]	0.820 ± 0.102 [1,6,7]	0.894 ± 0.111 [1,2,6,7]	0.885 ± 0.096 [1,2,6,7]	0.884 ± 0.096 [1,2,6,7]	0.748 ± 0.139 [7]	0.729 ± 0.139 [—]
yeast-0-3-5-9-vs-7-8	0.324 ± 0.051 [2]	0.310 ± 0.063 [—]	0.694 ± 0.089 [all]	0.562 ± 0.132 [1,2,6,7]	0.593 ± 0.126 [1,2,6,7]	0.406 ± 0.071 [1,2]	0.404 ± 0.084 [1,2]
glass-0-1-5-vs-2	0.518 ± 0.148 [2,6,7]	0.453 ± 0.116 [6,7]	0.576 ± 0.201 [1,2,6,7]	0.685 ± 0.145 [1,2,3,6,7]	0.683 ± 0.145 [1,2,3,6,7]	0.406 ± 0.063 [7]	0.391 ± 0.063 [—]
ecoli-0-6-7-vs-5	0.796 ± 0.145 [7]	0.831 ± 0.107 [6,7]	0.871 ± 0.104 [1,2,6,7]	0.853 ± 0.124 [1,6,7]	0.845 ± 0.123 [1,6,7]	0.791 ± 0.089 [7]	0.772 ± 0.109 [—]
ecoli-0-2-3-4-vs-5	0.768 ± 0.100 [—]	0.842 ± 0.095 [1,6,7]	0.897 ± 0.090 [1,2,4,6,7]	0.897 ± 0.086 [1,2,6,7]	0.894 ± 0.085 [1,2,6,7]	0.787 ± 0.102 [7]	0.766 ± 0.115 [—]
ecoli4	0.883 ± 0.085 [6,7]	0.893 ± 0.065 [6,7]	0.931 ± 0.068 [all]	0.928 ± 0.091 [1,2,6,7]	0.930 ± 0.090 [1,2,4,6,7]	0.832 ± 0.111 [7]	0.801 ± 0.127 [—]
yeast5	0.807 ± 0.028 [2]	0.776 ± 0.037 [—]	0.832 ± 0.026 [1,2]	0.971 ± 0.024 [1,2,3,6,7]	0.971 ± 0.024 [1,2,3,6,7]	0.907 ± 0.103 [1,2,3,7]	0.898 ± 0.125 [1,2,3]
ecoli-0-4-6-vs-5	0.842 ± 0.122 [—]	0.883 ± 0.107 [1,6,7]	0.895 ± 0.103 [1,2,6,7]	0.895 ± 0.090 [1,2,6,7]	0.895 ± 0.090 [1,2,6,7]	0.842 ± 0.101 [7]	0.837 ± 0.103 [—]
led7digit-0-2-4-5-6-7-8-9-vs-1	0.849 ± 0.077 [4,5]	0.868 ± 0.067 [4,5,6,7]	0.871 ± 0.071 [2,4,5,6,7]	0.548 ± 0.179 [—]	0.548 ± 0.178 [—]	0.841 ± 0.077 [4,5,7]	0.825 ± 0.075 [4,5]
ecoli-0-1-vs-5	0.725 ± 0.286 [—]	0.822 ± 0.186 [1]	0.896 ± 0.094 [1,2,6,7]	0.891 ± 0.086 [1,2,6,7]	0.894 ± 0.082 [1,2,6,7]	0.891 ± 0.090 [1,7]	0.879 ± 0.089 [1]
ecoli-0-2-6-7-vs-3-5	0.278 ± 0.340 [—]	0.436 ± 0.331 [1]	0.633 ± 0.241 [1,2]	0.812 ± 0.128 [all]	0.802 ± 0.130 [1,2,3,6,7]	0.745 ± 0.118 [1,2,3,7]	0.728 ± 0.123 [1,2,3]
ecoli-0-1-4-7-vs-2-3-5-6	0.517 ± 0.198 [—]	0.539 ± 0.226 [—]	0.725 ± 0.211 [1,2]	0.801 ± 0.128 [1,2,3]	0.837 ± 0.115 [1,2,3,4,6]	0.804 ± 0.122 [1,2,3]	0.833 ± 0.094 [1,2,3]
shuttle-c0-vs-c4	0.990 ± 0.013 [—]	0.989 ± 0.013 [—]	0.989 ± 0.013 [1,2]	0.993 ± 0.009 [1,2,3]	0.993 ± 0.009 [1,2,3]	0.993 ± 0.009 [1,2,3]	0.993 ± 0.009 [1,2,3]
ecoli-0-6-7-vs-3-5	0.258 ± 0.355 [—]	0.383 ± 0.366 [1]	0.675 ± 0.217 [1,2]	0.801 ± 0.126 [1,2,3,6,7]	0.797 ± 0.133 [1,2,3,6,7]	0.760 ± 0.107 [1,2,3,7]	0.743 ± 0.119 [1,2]
vowel0	0.913 ± 0.040 [2,4]	0.902 ± 0.024 [4]	0.925 ± 0.028 [2,4,7]	0.864 ± 0.072 [—]	0.911 ± 0.055 [4]	0.920 ± 0.030 [2,4,7]	0.914 ± 0.026 [2,4]
glass4	0.304 ± 0.325 [—]	0.725 ± 0.231 [1,6,7]	0.762 ± 0.219 [1,2,6,7]	0.686 ± 0.285 [1,6,7]	0.710 ± 0.246 [1,6,7]	0.471 ± 0.118 [1,7]	0.417 ± 0.129 [1]
yeast-0-5-6-7-9-vs-4	0.164 ± 0.068 [2]	0.140 ± 0.059 [—]	0.685 ± 0.214 [1,2,6,7]	0.790 ± 0.057 [1,2,3,6,7]	0.799 ± 0.054 [1,2,3,6,7]	0.353 ± 0.192 [1,2]	0.368 ± 0.212 [1,2]
yeast-0-2-5-6-vs-3-7-8-9	0.598 ± 0.077 [—]	0.752 ± 0.064 [1,4,5,6]	0.753 ± 0.057 [1,4,5,6]	0.667 ± 0.079 [1]	0.712 ± 0.078 [1,4]	0.722 ± 0.111 [1,4]	0.762 ± 0.125 [all]
ecoli-0-1-vs-2-3-5	0.305 ± 0.352 [—]	0.348 ± 0.370 [—]	0.822 ± 0.155 [1,2]	0.833 ± 0.125 [1,2,6]	0.833 ± 0.125 [1,2,6]	0.814 ± 0.119 [1,2]	0.815 ± 0.124 [1,2]
ecoli-0-3-4-vs-5	0.772 ± 0.112 [—]	0.846 ± 0.119 [1,6,7]	0.890 ± 0.127 [1,2,6,7]	0.898 ± 0.125 [1,2,3,6,7]	0.893 ± 0.125 [1,2,3,6,7]	0.757 ± 0.139 [7]	0.729 ± 0.131 [7]
glass5	0.933 ± 0.163 [—]	0.846 ± 0.275 [4]	0.835 ± 0.275 [4]	0.834 ± 0.302 [—]	0.848 ± 0.278 [2,3]	0.851 ± 0.277 [2,3,4,5]	0.851 ± 0.277 [2,3,4,5]
yeast4	0.361 ± 0.067 [2,6]	0.274 ± 0.045 [—]	0.480 ± 0.058 [1,2,6,7]	0.794 ± 0.082 [1,2,3,6,7]	0.799 ± 0.083 [all]	0.296 ± 0.205 [—]	0.312 ± 0.242 [—]
glass-0-4-vs-5	0.963 ± 0.149 [2,3]	0.910 ± 0.176 [—]	0.893 ± 0.181 [—]	0.876 ± 0.251 [—]	0.870 ± 0.252 [—]	0.900 ± 0.217 [—]	0.900 ± 0.217 [—]
yeast6	0.529 ± 0.045 [—]	0.528 ± 0.048 [—]	0.750 ± 0.043 [1,2,6,7]	0.884 ± 0.062 [all]	0.883 ± 0.062 [1,2,3,6,7]	0.600 ± 0.078 [1,2]	0.611 ± 0.078 [1,2]
page-blocks-1-3-vs-4	0.730 ± 0.130 [—]	0.741 ± 0.138 [—]	0.791 ± 0.163 [1,2,4,6,7]	0.712 ± 0.145 [—]	0.763 ± 0.146 [1,2,4,6,7]	0.719 ± 0.133 [—]	0.738 ± 0.130 [1]
yeast-1-vs-7	0.452 ± 0.051 [6,7]	0.453 ± 0.059 [6,7]	0.681 ± 0.130 [all]	0.637 ± 0.114 [1,2,6,7]	0.631 ± 0.121 [1,2,6,7]	0.430 ± 0.078 [7]	0.419 ± 0.085 [—]
ecoli-0-1-3-7-vs-2-6	0.725 ± 0.377 [—]	0.738 ± 0.385 [1,7]	0.738 ± 0.386 [1,7]	0.737 ± 0.385 [1,7]	0.736 ± 0.384 [1,7]	0.746 ± 0.364 [2,3,4,5,7]	0.714 ± 0.370 [—]
yeast-1-4-5-8-vs-7	0.293 ± 0.044 [—]	0.301 ± 0.049 [1]	0.473 ± 0.051 [1,2,6,7]	0.603 ± 0.142 [1,2,3,6,7]	0.602 ± 0.142 [1,2,3,6,7]	0.352 ± 0.107 [1,2]	0.389 ± 0.118 [1,2,6]
ecoli-0-1-4-7-vs-5-6	0.669 ± 0.203 [—]	0.812 ± 0.171 [1]	0.860 ± 0.149 [1,2]	0.839 ± 0.171 [1,2]	0.845 ± 0.166 [1,2]	0.856 ± 0.092 [1]	0.853 ± 0.093 [1]
yeast-2-vs-8	0.518 ± 0.136 [7]	0.636 ± 0.094 [1,6,7]	0.736 ± 0.176 [all]	0.728 ± 0.153 [1,2,6,7]	0.728 ± 0.153 [1,2,6,7]	0.506 ± 0.161 [7]	0.482 ± 0.142 [—]
yeast-0-2-5-7-9-vs-3-6-8	0.398 ± 0.065 [2]	0.301 ± 0.068 [—]	0.810 ± 0.134 [1,2,6,7]	0.897 ± 0.037 [1,2,3,6,7]	0.899 ± 0.037 [1,2,3,6,7]	0.498 ± 0.096 [1,2]	0.592 ± 0.218 [1,2,6]
glass2	0.570 ± 0.109 [—]	0.570 ± 0.110 [—]	0.627 ± 0.145 [1,2,6,7]	0.732 ± 0.113 [1,2,3,6,7]	0.731 ± 0.113 [1,2,3,6,7]	0.583 ± 0.071 [7]	0.572 ± 0.071 [—]

Table 11: Results for GMEAN metric

	GNB (1)	OSB (2)	OKNORAU (3)	TBAC (4)	OTBAC (5)	TBAW (6)	OTBAW (7)
Mean rank	2.756 [—]	3.134 [—]	5.427 [1,2,6,7]	4.963 [1,2,6,7]	5.280 [1,2,6,7]	3.415 [—]	3.024 [—]

Table 12: Results for mean ranks according to GMEAN metric