

Figure 1: Critical diagram on the 30 real-world datasets from OpenML-CC18 benchmark.

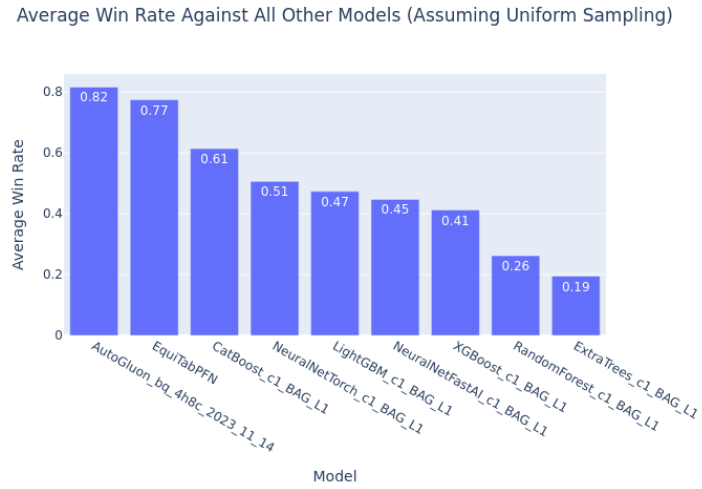


Figure 2: Average winrate on TabRepo Benchmark.



Figure 3: Pairwise winrate on TabRepo Benchmark.

Elo Confidence Intervals on Model Strength (via Bootstrapping)

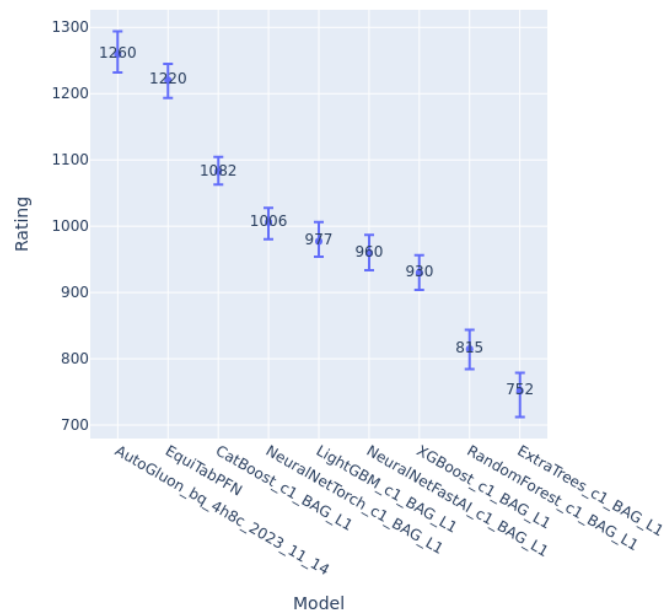


Figure 4: Elo ratings on TabRepo Benchmark: higher is better.

Method	Mean acc. (\uparrow)	Mean rank (\downarrow)
EquiTabPFN	0.81	3.94
TabPFN	0.81	4.39
CatBoost	0.80	5.29
XGBoost	0.80	6.72
SAINT	0.78	7.47
NODE	0.78	7.75
rtdl _{ResNet}	0.78	8.06
RandomForest	0.77	8.06
LinearModel	0.74	9.34
rtdl-FTTTransformer	0.75	10.10
DANet	0.75	10.66
DecisionTree	0.74	11.74
rtdl-MLP	0.70	12.16
LightGBM	0.74	12.72
MLP	0.69	12.99
KNN	0.70	13.25
SVM	0.70	13.52
STG	0.62	16.80
VIME	0.57	17.41
TabNet	0.62	17.66

Table 1: Mean accuracy and rank on TabZilla on 61 classifications datasets (including binary and multiclassification).

Method	Mean acc. (\uparrow)	Mean rank (\downarrow)
EquiTabPFN	0.77	3.06
XGBoost	0.76	4.69
TabPFNModel	0.75	5.27
CatBoost	0.75	5.40
SAINT	0.72	7.13
rtdl _{ResNet}	0.72	7.19
NODE	0.71	7.46
RandomForest	0.71	8.77
LinearModel	0.66	9.83
DANet	0.68	10.27
LightGBM	0.68	11.04
DecisionTree	0.66	11.65
rtdl-FTTTransformer	0.64	12.23
KNN	0.62	12.35
SVM	0.60	13.88
rtdl-MLP	0.56	14.08
MLP	0.56	14.42
VIME	0.50	16.46
TabNet	0.51	17.38
STG	0.50	17.42

Table 2: Mean rank against methods in TabZilla on 26 multi-classification datasets (e.g. datasets with at least 3 classes).