

Explainable Classification of Astronomical Uncertain Time Series: Supplementary material

No Author Given

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0.1 SAST-based methods results

Table 1: uSAST<X> models results on the PLAsTiCC dataset average over 3 runs. The row with the star is the run that achieved the lowest cross entropy loss.

	Classifier	Precision	Recall	F1 score	LogLoss	Time (h)
uSAST	RF	0.62 ± 0.01	0.66 ± 0.01	0.60 ± 0.01	1.20 ± 0.03	53.61 ± 0.10
	RidgeCV	0.33 ± 0.02	0.34 ± 0.02	0.33 ± 0.02	2.98 ± 0.11	53.61 ± 0.10
	XGBoost	0.69 ± 0.00	0.70 ± 0.00	0.66 ± 0.00	1.04 ± 0.01	53.61 ± 0.10
	XGBoost*	0.69	0.70	0.66	1.04	53.56
uSASTd	RF	0.61 ± 0.03	0.64 ± 0.00	0.58 ± 0.00	1.20 ± 0.04	41.58 ± 0.47
	RidgeCV	0.35 ± 0.01	0.37 ± 0.01	0.35 ± 0.01	2.90 ± 0.06	41.58 ± 0.47
	XGBoost	0.70 ± 0.01	0.70 ± 0.00	0.67 ± 0.00	1.06 ± 0.02	41.58 ± 0.47
	XGBoost*	0.71	0.70	0.67	1.04	41.78
uSASTdc	RF	0.60 ± 0.00	0.64 ± 0.01	0.58 ± 0.00	1.21 ± 0.00	40.45 ± 1.00
	RidgeCV	0.37 ± 0.04	0.38 ± 0.03	0.37 ± 0.03	2.78 ± 0.07	40.45 ± 1.00
	XGBoost	0.69 ± 0.01	0.70 ± 0.00	0.66 ± 0.00	1.04 ± 0.02	40.45 ± 1.00
	XGBoost*	0.68	0.70	0.66	1.03	41.16