Table A.1: A summary of models and some of their characteristics

Model	Allows $n < p$	Pre-processing Interpretable Automatic feature selection	Interpretable	Automatic feature selection	# Tuning parameters	Robust to predictor noise	Computation time
Linear regression [†]	×	CS, NZV, Corr	>	×	0	×	>
Partial least squares	>	CS	>	0	1	×	>
Ridge regression	×	CS, NZV	>	×	1	×	>
Elastic net/lasso	×	CS, NZV	>	>	1-2	×	>
Neural networks	>	CS, NZV, Corr	×	×	2	×	×
Support vector machines	>	CS	×	×	1–3	×	×
MARS/FDA	>		0	>	1-2	0	0
K-nearest neighbors	>	CS, NZV	×	×	П	0	>
Single trees	>		0	>	П	>	>
$Model trees/rules^{\dagger}$	>		0	>	1-2	>	>
Bagged trees	>		×	>	0	>	0
Random forest	>		×	0	0 - 1	>	×
Boosted trees	>		×	>	အ	>	×
$Cubist^{\dagger}$	>		×	0	2	>	×
$Logistic regression^*$	×	CS, NZV, Corr	>	×	0	×	>
$\{\text{LQRM}\}\text{DA}^*$	×	NZN	0	×	0-2	×	>
Nearest shrunken	>	NZN	0	>	1	×	>
$centroids^*$							
Naïve Bayes*	>	NZN	×	×	0 - 1	0	0
C5.0*	>		0	>	0 - 3	>	×

[†]regression only *classification only

Symbols represent affirmative (\checkmark) , negative (\times) , and somewhere in between (\circ)