

PS10_{spohn}

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1 Introduction

I had an issue where trying to print the final table it would not all fit on the page, so I split it up into four tables for visibility. Additionally, as discussed through email I had trouble with the SVM model. I ended up letting it run for 6 hours before I stopped it, so I beleive the error I had must have been causing something to go wrong. So that model is not included here.

2 Logit Table

rrrrrrrr

penalty	.metric	.estimator	mean	n	std _{err}	.estimate	alg
0.00	accuracy	binary	0.85	3	0.00	0.85	logit

3 Tree Table

rrrr

cost _{complexity}	tree _{depth}	min _n	.config
0.00	15.00	10.00	Preprocessor1 _{Model003}

4 nnet Table

rrr

hidden _{units}	penalty	.config
6	1.00	Preprocessor1 _{Model060}

5 knn Table

rr

neighbors	.config
30	Preprocessor1 $Model$ 30

6 out of sample accuracy

The following is the accuracy for each model - logit .8526 - tree .8684 - nnet .8326 - knn .8433

Based on this it seems like Tree and Logit were the most accurate