

PS10 McGuire

Joel McGuire

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1 Introduction

The neural network performs best in terms of f1 as a measure of accuracy. Naive bayes has the lowest geometric mean of what I assume is the error term, of \$2043.

1.1 Performance

	f1	gmean
tree	0.8976425	2094.198
logit	0.8633508	0.000
nnet	0.9069514	2126.452
knn	0.8977964	2106.887
svm	0.8939016	2086.292
nbayes	0.8825952	2043.110

1.2 Optimal Parameters

value	measure	model
21	minsplit	tree
12	minbucket	tree
0.003359	cp	tree
24	k	knn
2.354535	lambda	logit
0.472230	alpha	logit
radial	kernel	svm
47.001022	cost	svm
0.498152	gamma	svm
10	size	nnet
0.457640	decay	nnet
1000	maxit	nnet