

PS10_Maddy

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1 Question no. 9

Each of the algorithms we used were quite similar in conclusion. The tree model performed the best (0.86) compared to the neural network model which performed the worst (0.83). As seen above, the difference between these two conclusions is only .03, not extremely significant. It is worth noting that the latter models took much longer to run. This should certainly be a factor in our analysis of which model/algorithm to use.

penalty	.estimate	alg	cost_complexity	tree_depth	min_n	hidden_units	neighbors
0.00	0.84	logit					
	0.86	tree	0.00	15.00	40.00		
0.00	0.83	nnet				9.00	
	0.84	knn					30.00
	0.85	svm					2.00