Capstone Two - Model Metrics

Predicting Response of Sales Phone Calls for a Bank's Sales Team

1

Logistic Regression

Results with No Tuning:

C Value	Accuracy
1	0.886

Best C Value from [0.001, 0.1, 1, 10, 100]:

C Value	Accuracy
0.1	**0.895**

2

Decision Tree - Entropy

Max Depth	Accuracy	Precision	Recall
None	0.830	0.907	0.899
3	0.888	0.902	0.980
5	**0.892**	0.904	0.982
8	0.889	0.907	0.974

3

Decision Tree - Gini Impurity

Max Depth	Accuracy	Precision	Recall
None	0.827	0.909	0.893
3	0.888	0.902	0.980
5	**0.892**	0.904	0.981
8	0.886	0.905	0.973

4

Random Forest

Max Depth	Accuracy	Precision	Recall
3	0.886	0.889	0.935
5	0.893	0.902	0.807
8	0.894	0.904	0.787