



STEPS

- PROBLEM ASSESMENT
- DATA- PREPROCESSING
- FEATURE SELECTION
- MODEL TRAINING
- MODEL TESTING
- MODEL PERFORMANCE VISUALISATION
- MODEL PERFORMANCE ENHANCEMENT



MODEL TRAINING & TESTING STATS

In original dataset had 20 independent attributes, but after data-preparation 5 more attributes got added due to one hot encoding.

TRAINING	EVALUATION PARAMETER	TESTING
73.57%	Accuracy	68.33%
70.36%	Precision	68.10%
80.12%	Recall	72.81%
74.92%	F1_SCORE	70.38%
81%	AUC	68%



MODEL PERFORMANCE EVALUATION

CONFUSION MATRIX TRAINING

		PREDICTED	
		0	1
ACTUAL	0	334	163
	1	96	387

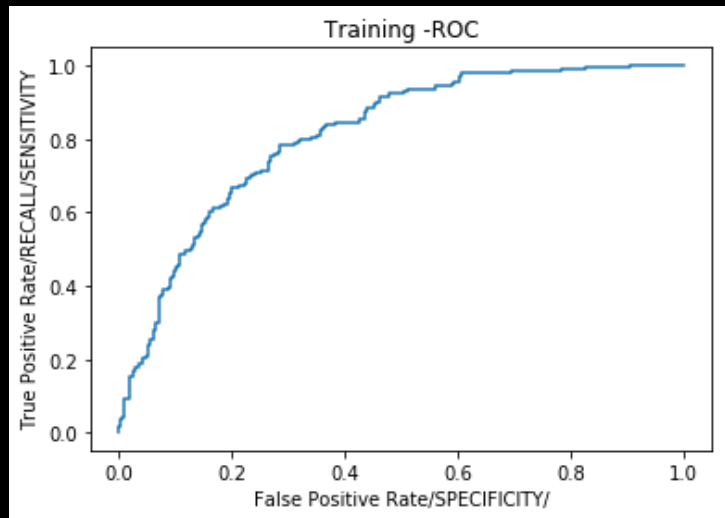
CONFUSION MATRIX TRAINING

		PREDICTED	
		0	1
ACTUAL	0	129	74
	1	59	158

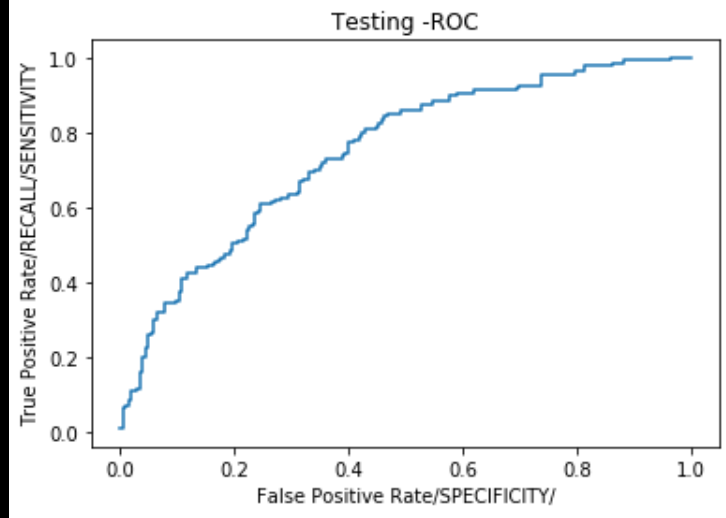


ROC CURVE PLOTS

TRAINING DATA



TESTING DATA





OBSERVATION

After visualizing model performance for training and testing, it can be observed that there is slight dip in model performance on test data, though acceptable since F1-Score is 70%