



PREDICTION CREDIT CARD DEFAULT

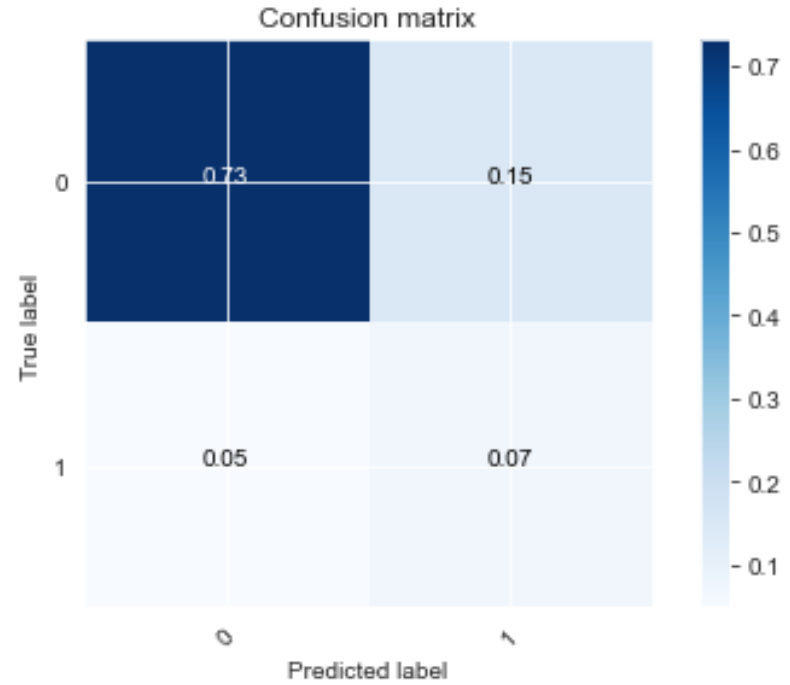
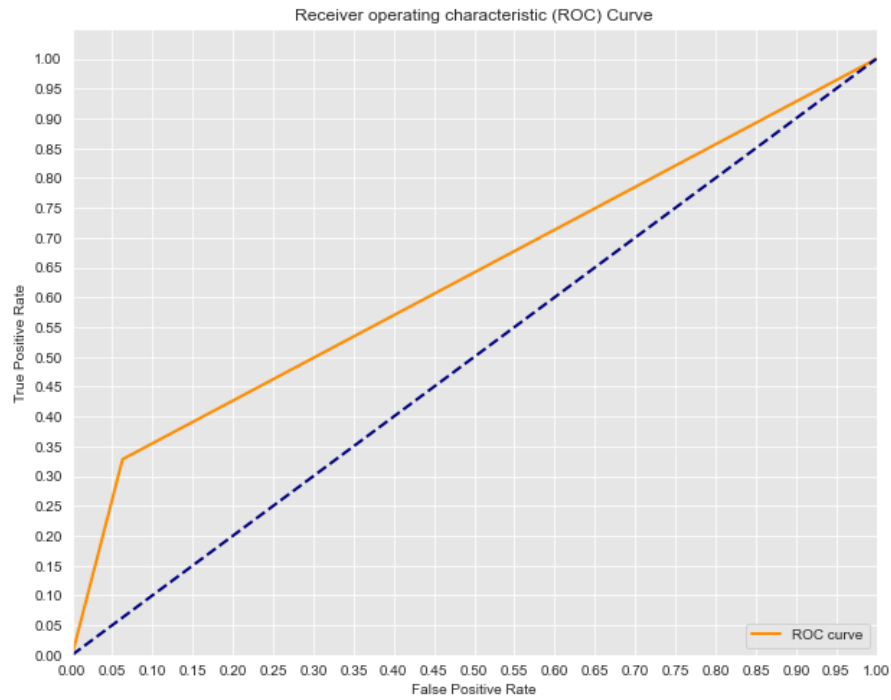
CLASSIFICATION MODEL COMPARISONS



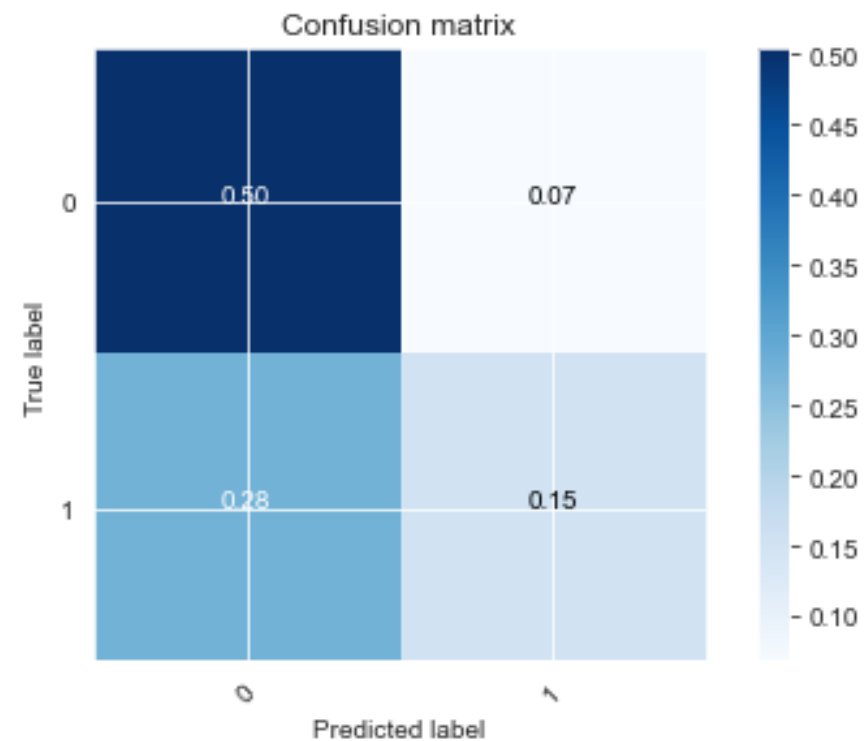
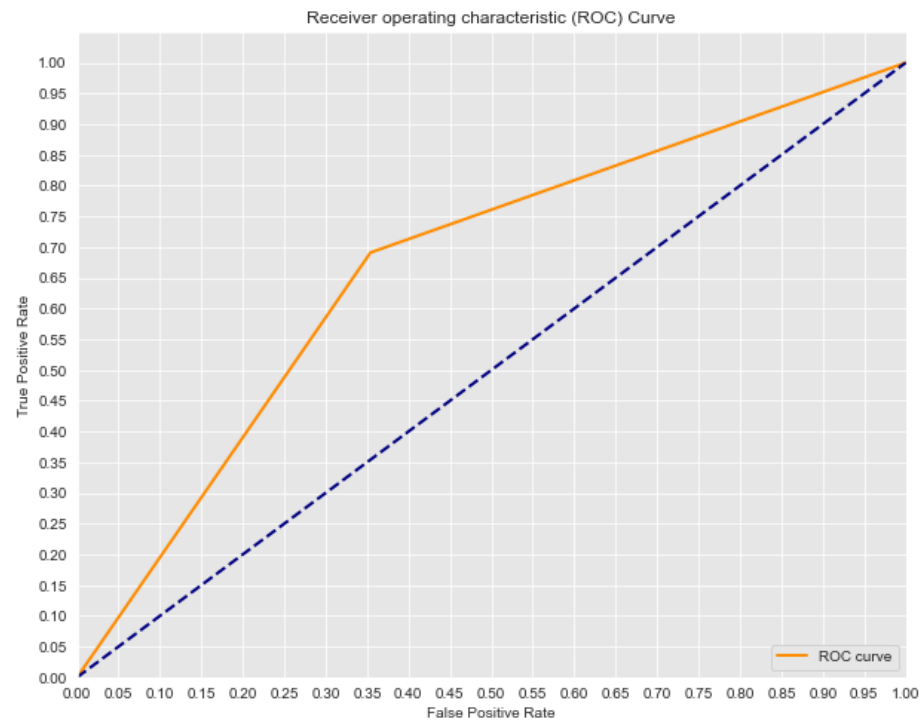
DATA SETS USED

- The dataset used was the “default of credit card clients data set” from UCI Machine Learning Repository

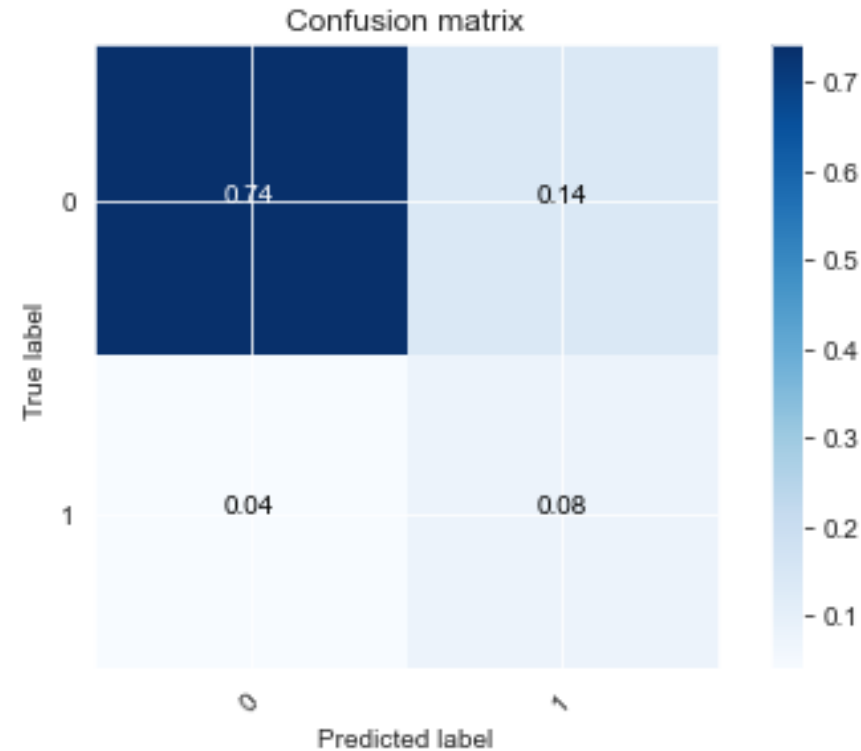
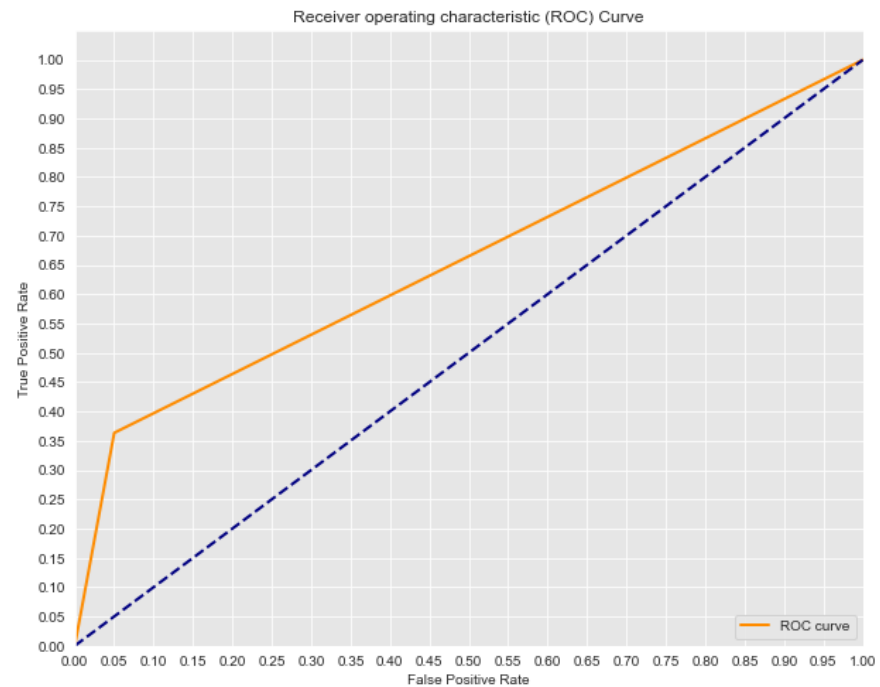




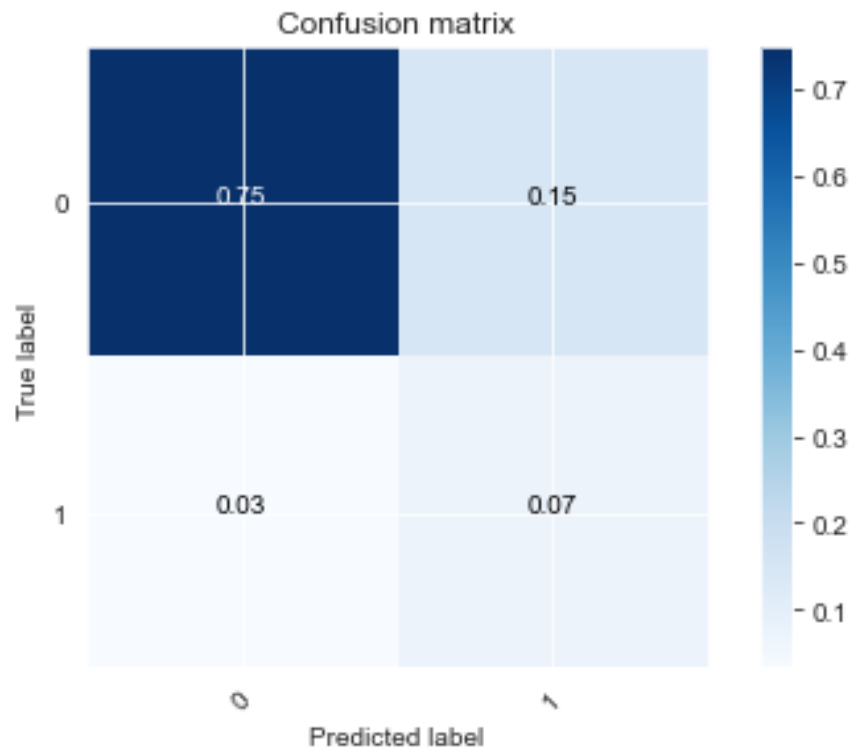
K-NEAREST NEIGHBORS RESULTS



NAIVE BAYES RESULTS

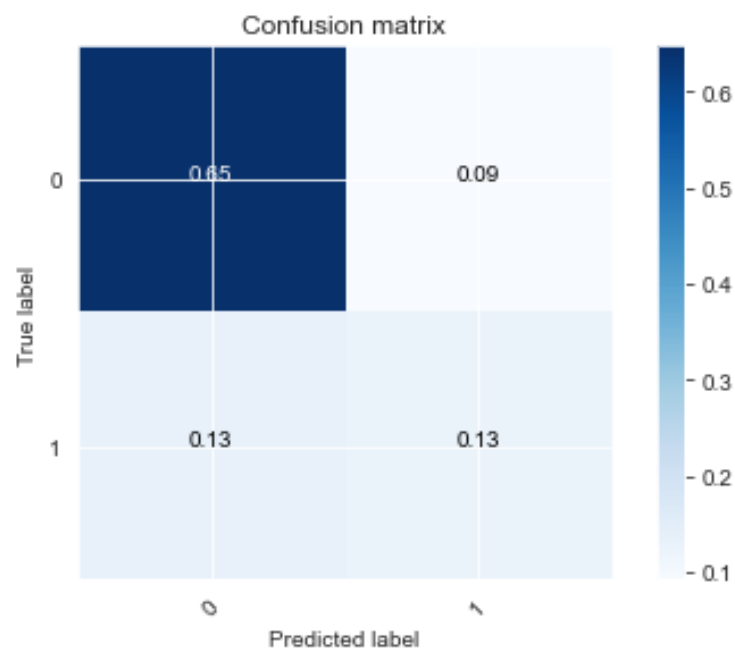


DECISION TREE CLASSIFIER RESULTS



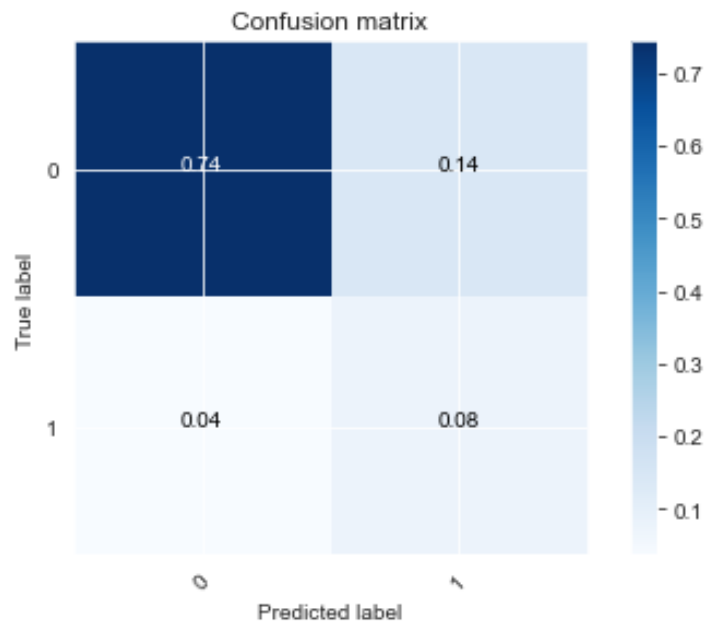
	0	1	accuracy	macro avg	weighted avg
precision	0.834774	0.687817	0.819333	0.761295	0.802424
recall	0.957942	0.328286	0.819333	0.643114	0.819333
f1-score	0.892126	0.444444	0.819333	0.668285	0.793577
support	5849.000000	1651.000000	0.819333	7500.000000	7500.000000

BAGGED TREES RESULTS



	0	1	accuracy	macro avg	weighted avg
precision	0.875586	0.491812	0.7756	0.683699	0.791104
recall	0.830227	0.582071	0.7756	0.706149	0.775600
f1-score	0.852304	0.533148	0.7756	0.692726	0.782047
support	5849.000000	1651.000000	0.7756	7500.000000	7500.000000

RANDOM FOREST RESULTS



	0	1	accuracy	macro avg	weighted avg
precision	0.838448	0.677230	0.820133	0.757839	0.802958
recall	0.952983	0.349485	0.820133	0.651234	0.820133
f1-score	0.892054	0.461047	0.820133	0.676550	0.797175
support	5849.000000	1651.000000	0.820133	7500.000000	7500.000000

XGBOOST RESULTS

Can results be improved if probability threshold are tweaked?



FURTHER
INVESTIGATION



THANK YOU