Relevant Packages Installation

Package Name	Version
<pre>imbalanced-learn imblearn matplotlib numpy pandas pip py scikit-learn xgboost category-encoders mlxtend</pre>	0.5.0 0.0 2.2.2 1.16.4 0.23.0 19.2.2 1.5.3 0.21.3 0.90 1.3.0 0.13.0

Instructions to Run Code File:

- 1) As the submitted file is a IPython Notebook every cell need to be run sequentially.
- 2) In the Random Forest model rfc the grid search best parameters are given again running the grid search for random forest may take more time so can skip that cell.
- 3) Hyper Parameter Tuned RF model rfc Best Score rfc.predict()
- 4) Ensemble Vote Classifier ensemble_clf ensemble_clf.predict()
- 5) Xg Boost xgb_boost1 xgb_boost1.predict() hyper parameter tuned
- 6) Grad Boost grad_boost1 grad_boost1.predict() hyper parameter tuned
- 7) Stacking Classifier sclf1 sclf1.predict()
- 8) Reursive feature elimination x_train changed to x_rfe if any model run on x_rfe fintest and x_test needed to be changed according to the features eliminated.