

Classification project







Description:

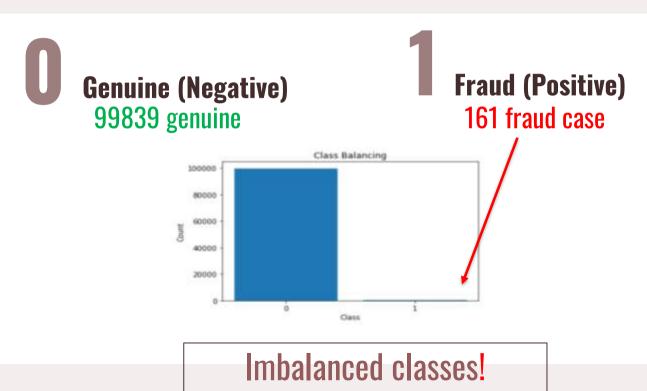


It is important that credit card companies are able to recognize fraudulent credit card transactions so that customers are not charged for items that they did not purchase.

Dataset:

This dataset presents transactions that occurred in two days, where we have 161 frauds out of 100,000 transactions. The dataset is highly unbalanced.

Binary Calssification

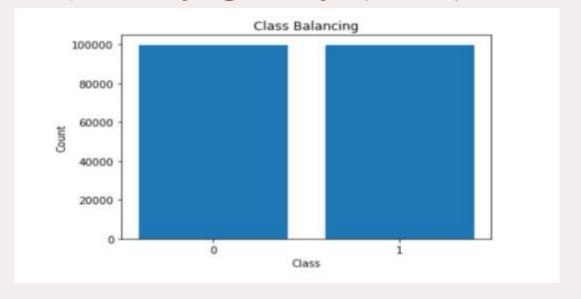






To manage imbalanced classes:

Synthetic Minority Oversampling Technique (SMOTE).





Classification Models:





Logistic Regression

0.9804



KNN

0.9279



Random Forest

0.9997



Decision Trees

0.9998

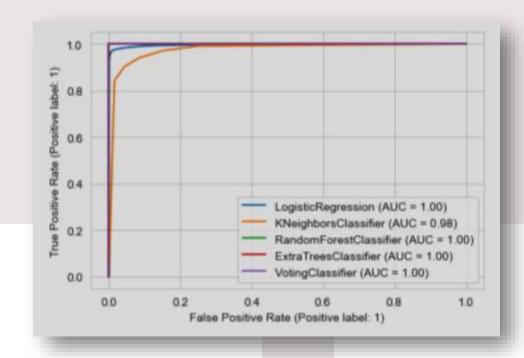




Voting Classifier:



ROC/AUC Curve







THANK YOU



