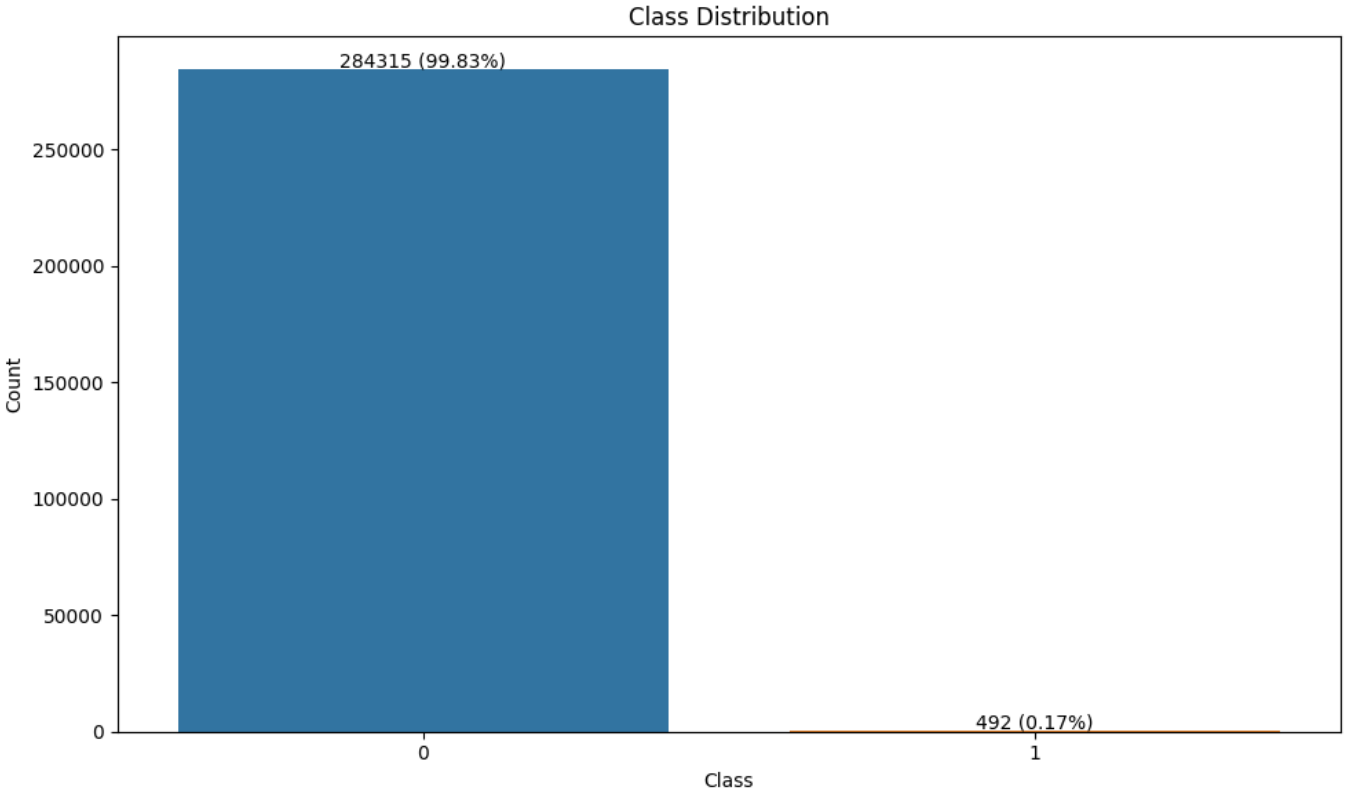
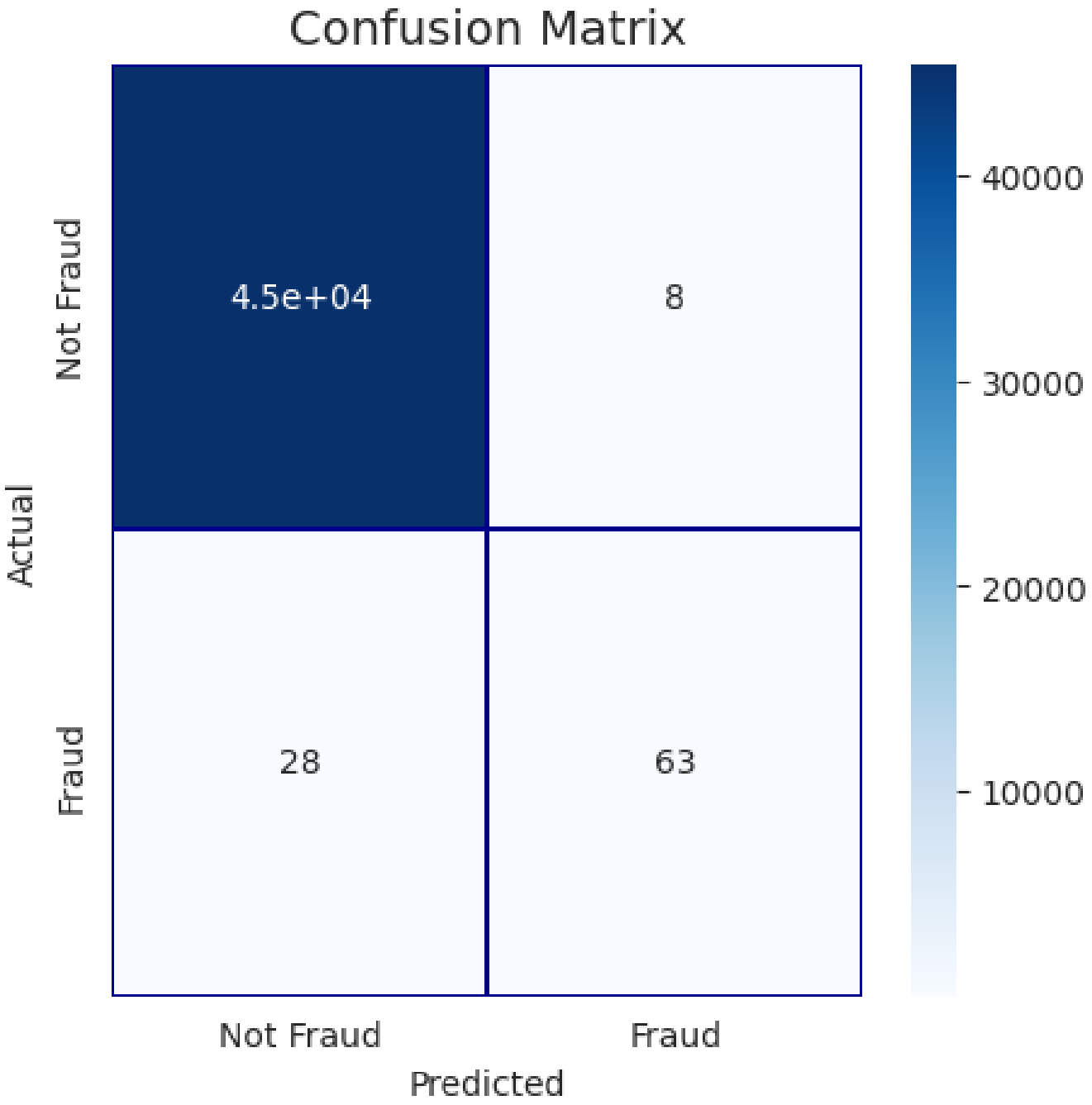
Credit Card Fraud Detection Visualizations

Prepared by: Balaji Prasad Thulasiram

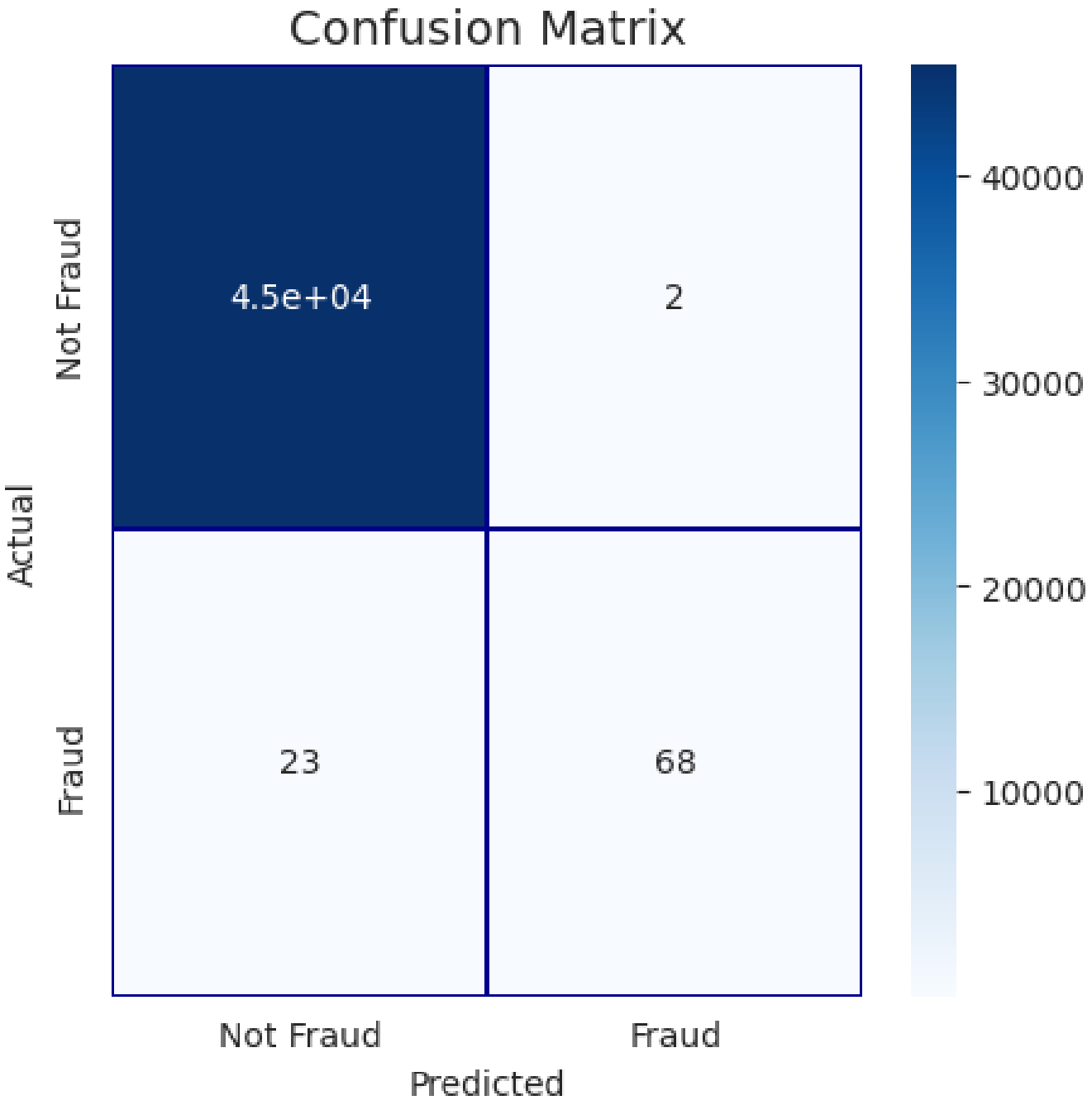
Class distribution



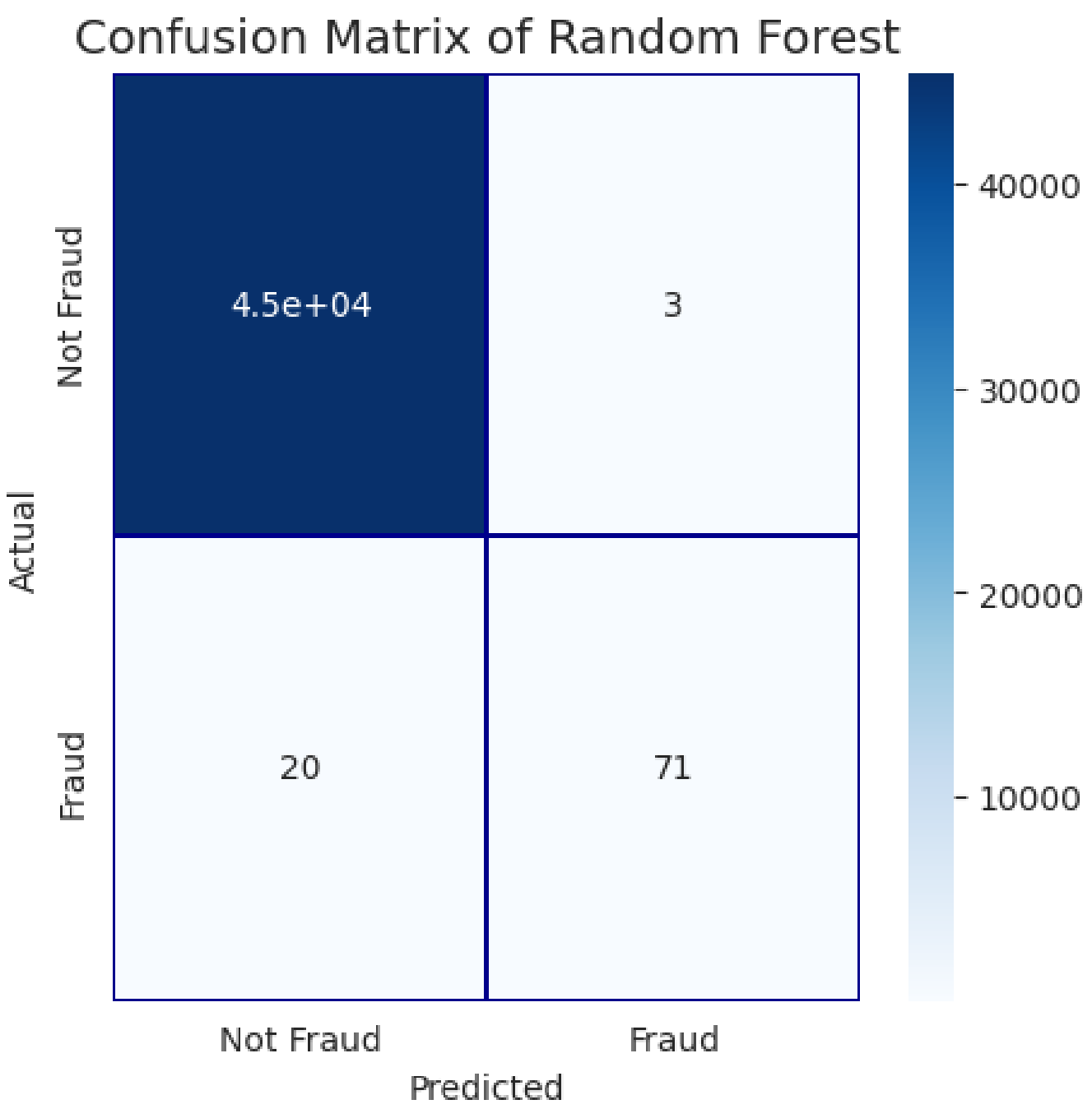
Confusion Matrix of Adaboost Classifier



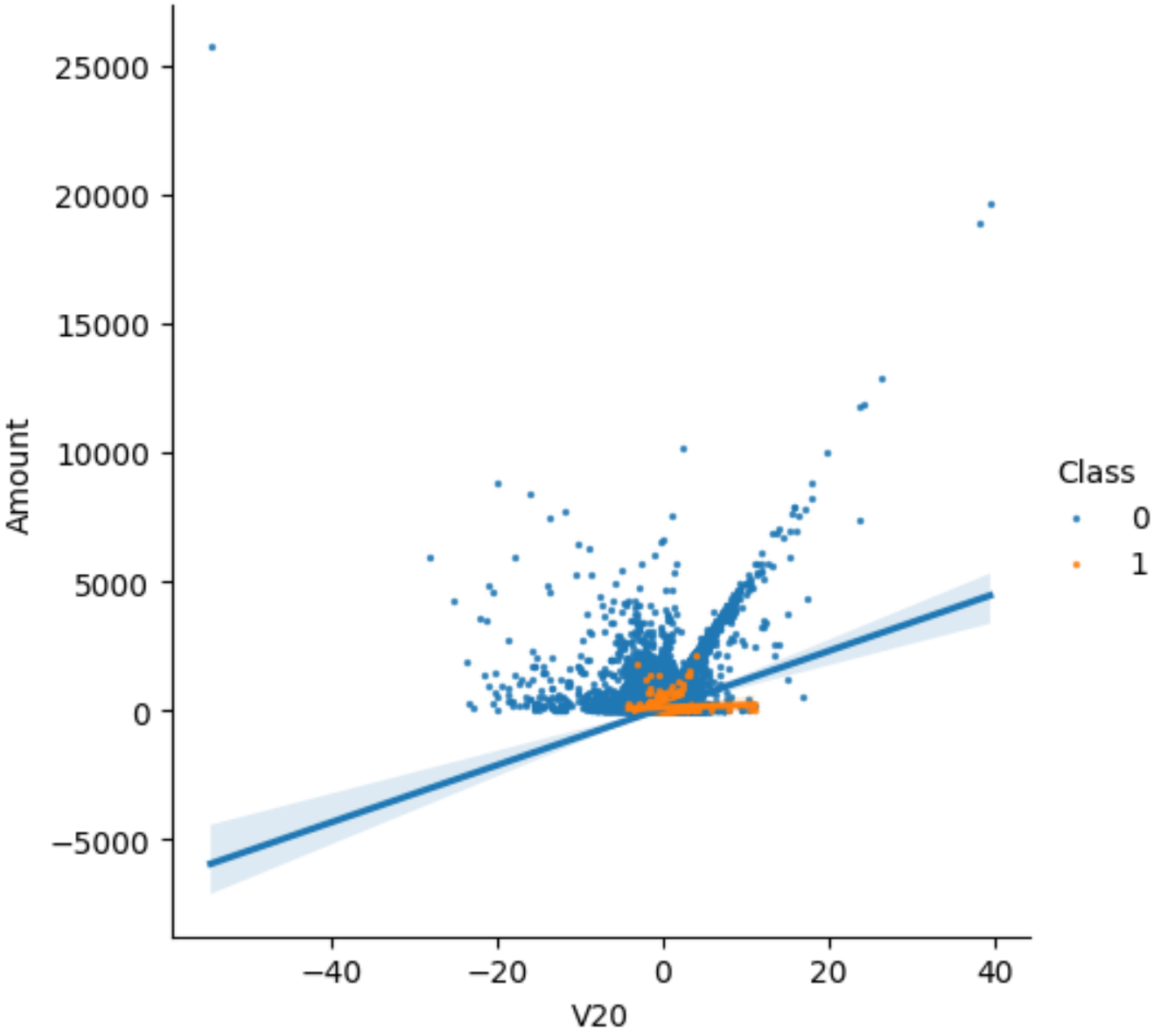
Confusion Matrix of Catboost Classifier



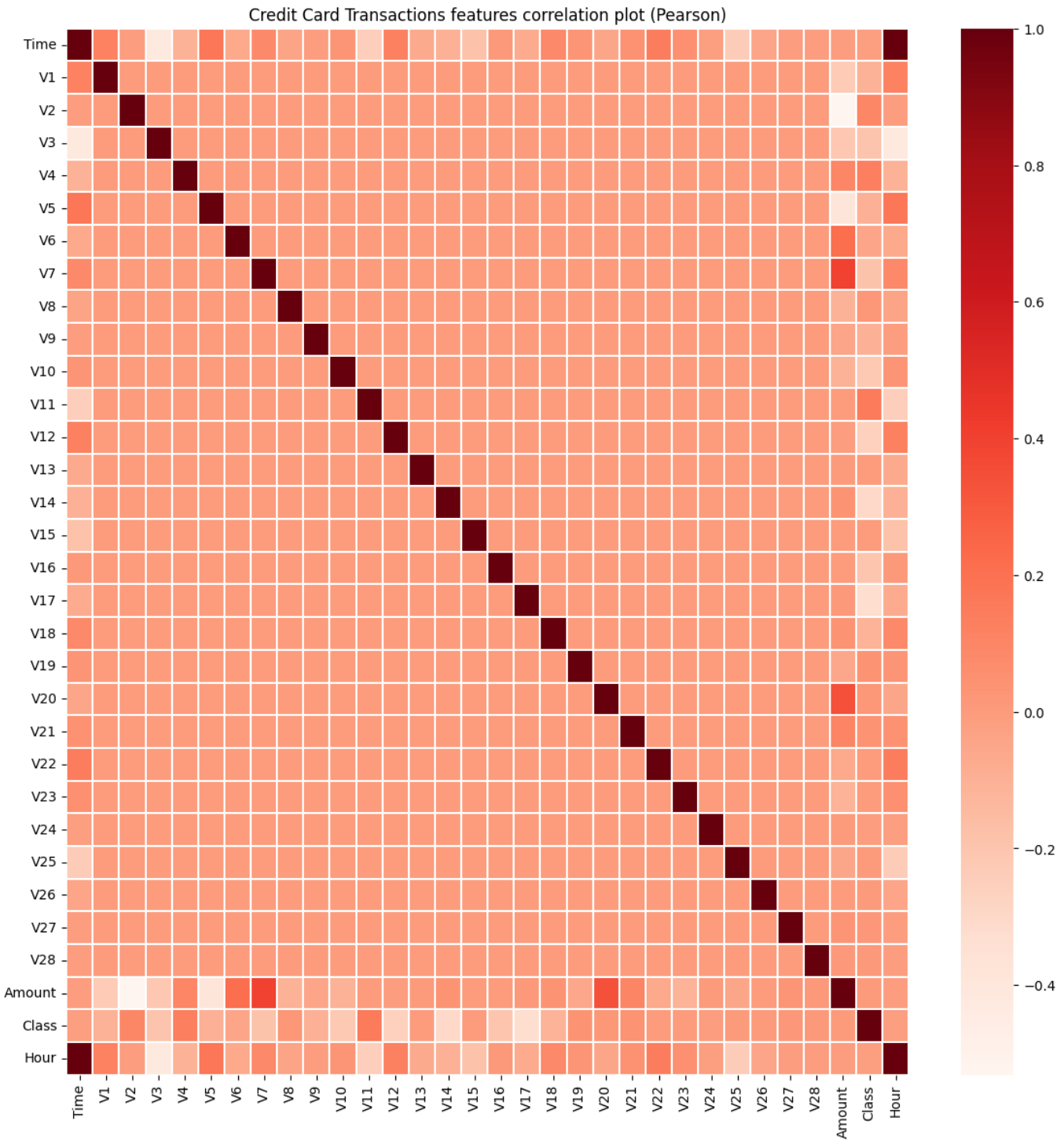
Confusion Matrix of RandomForrestClassifier



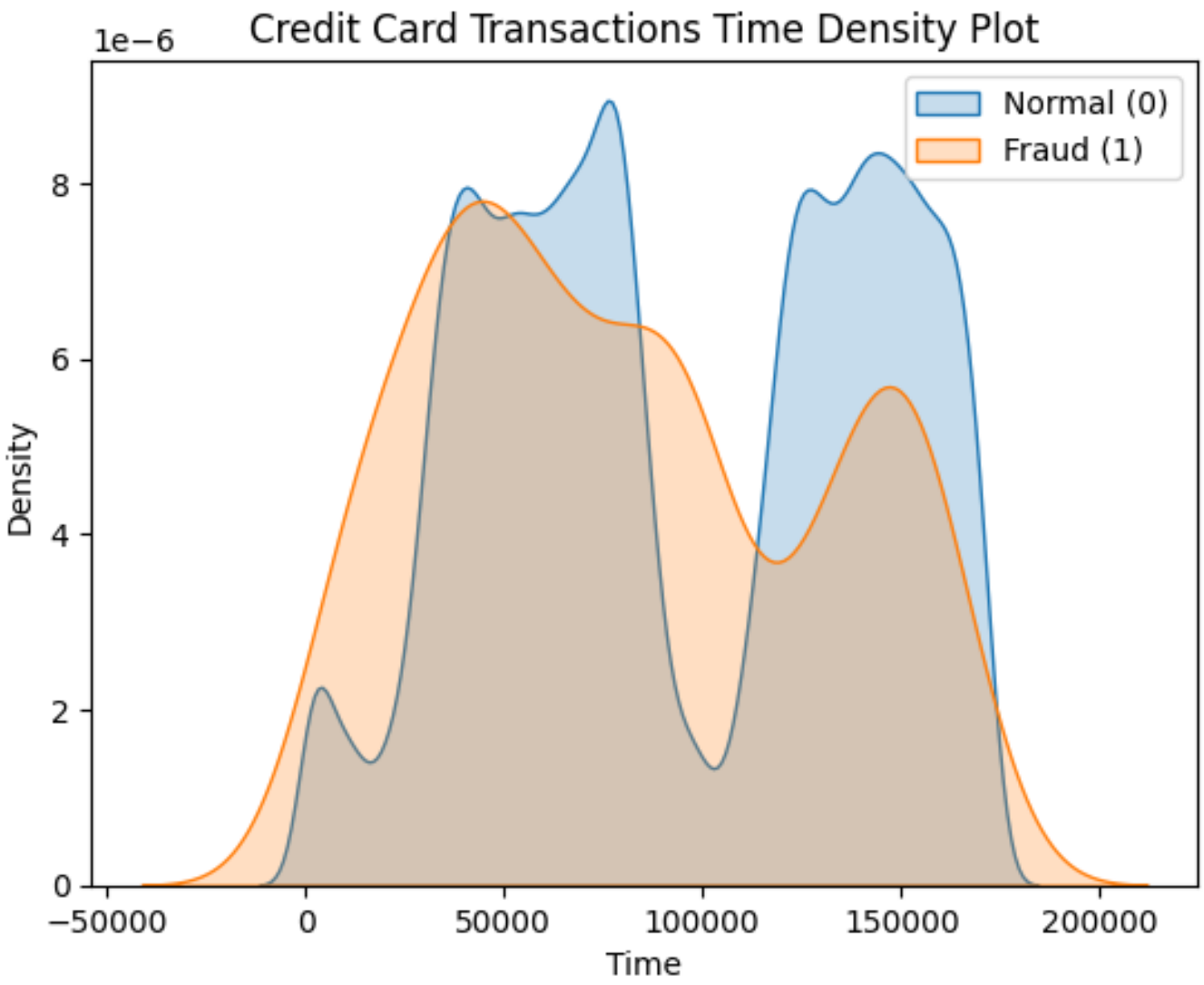
Correlation between V20 and V7



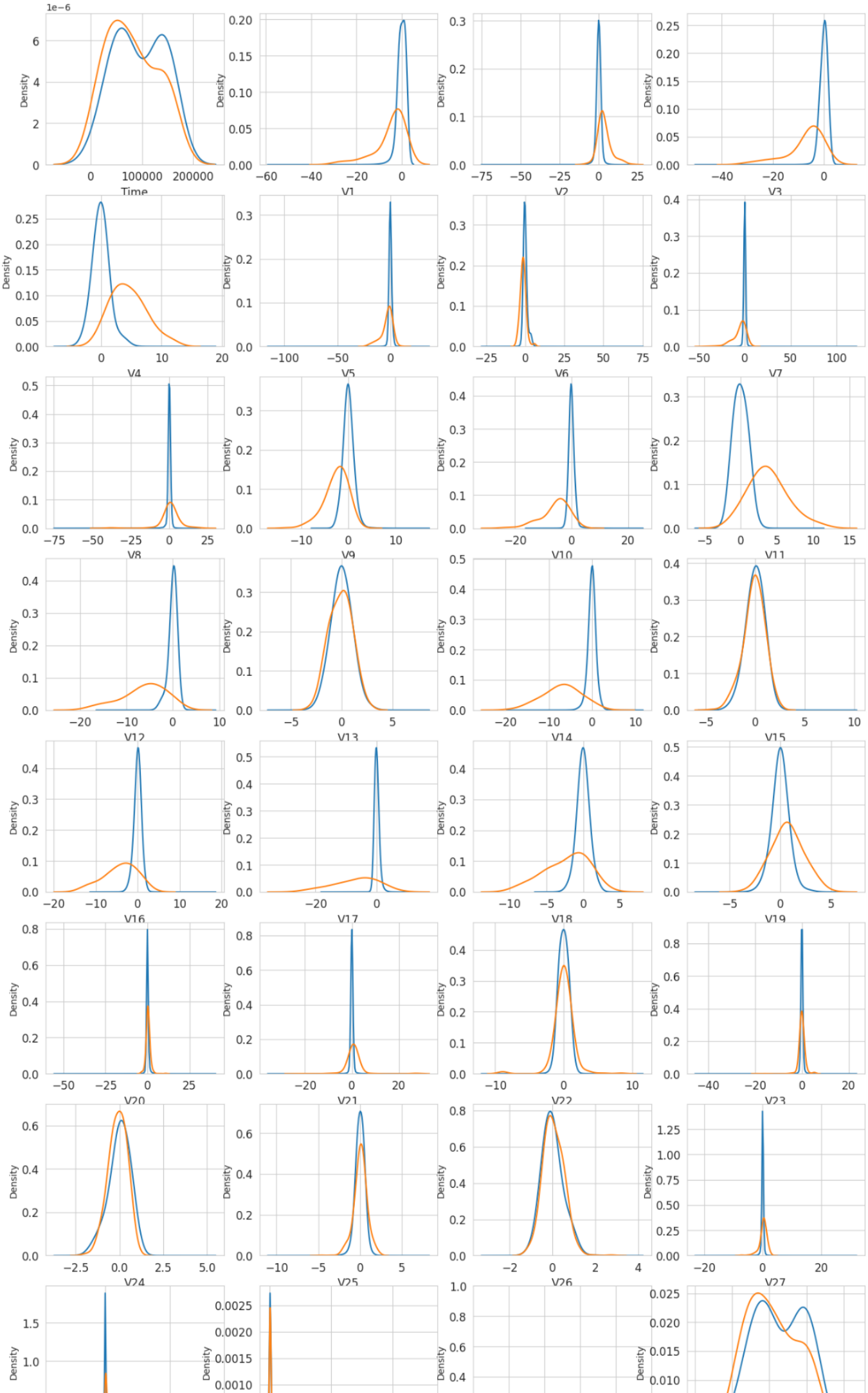
Credit Card Transactions features correlation plot (Pearson)



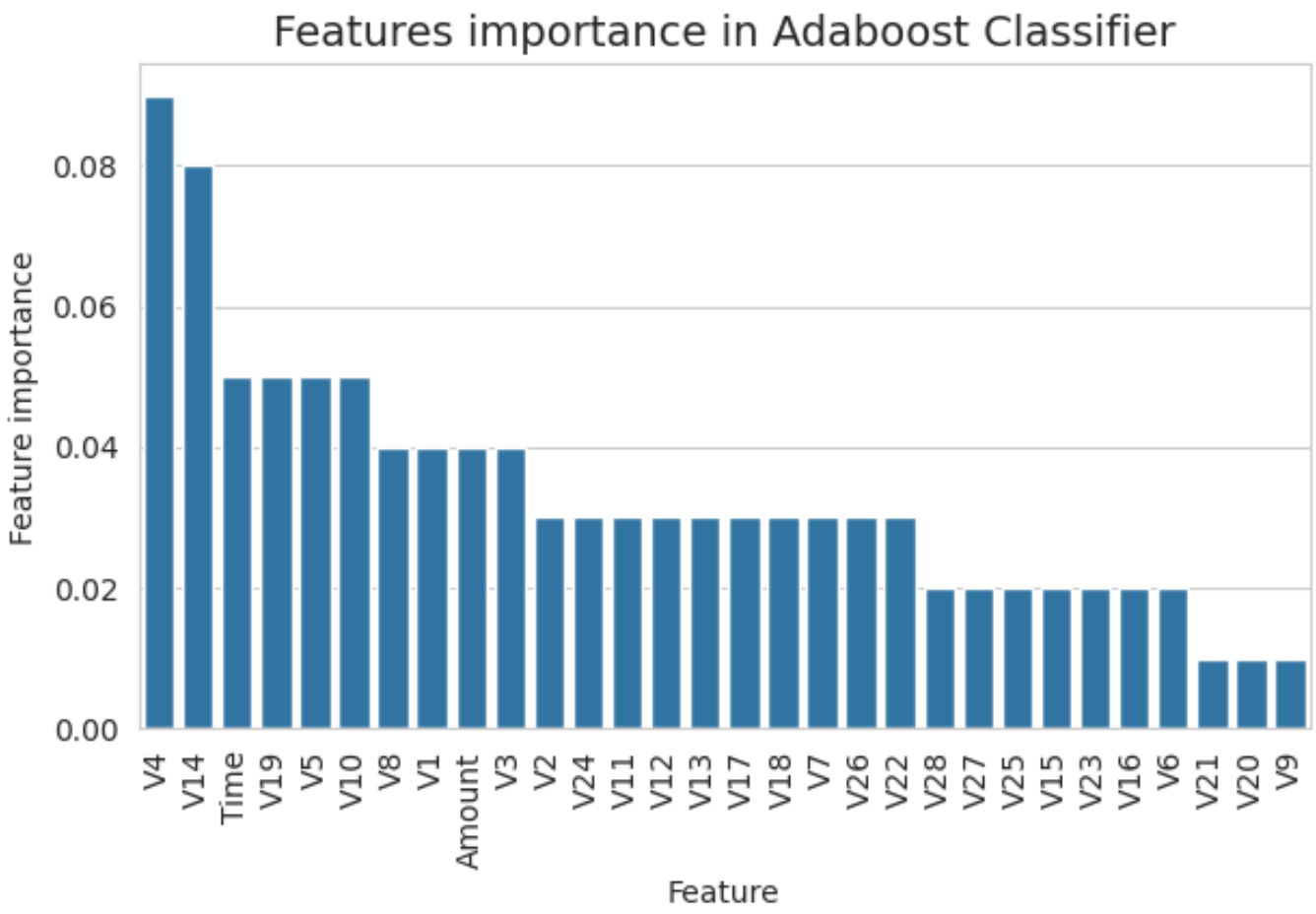
Credit Card Transactions Time Density Plot



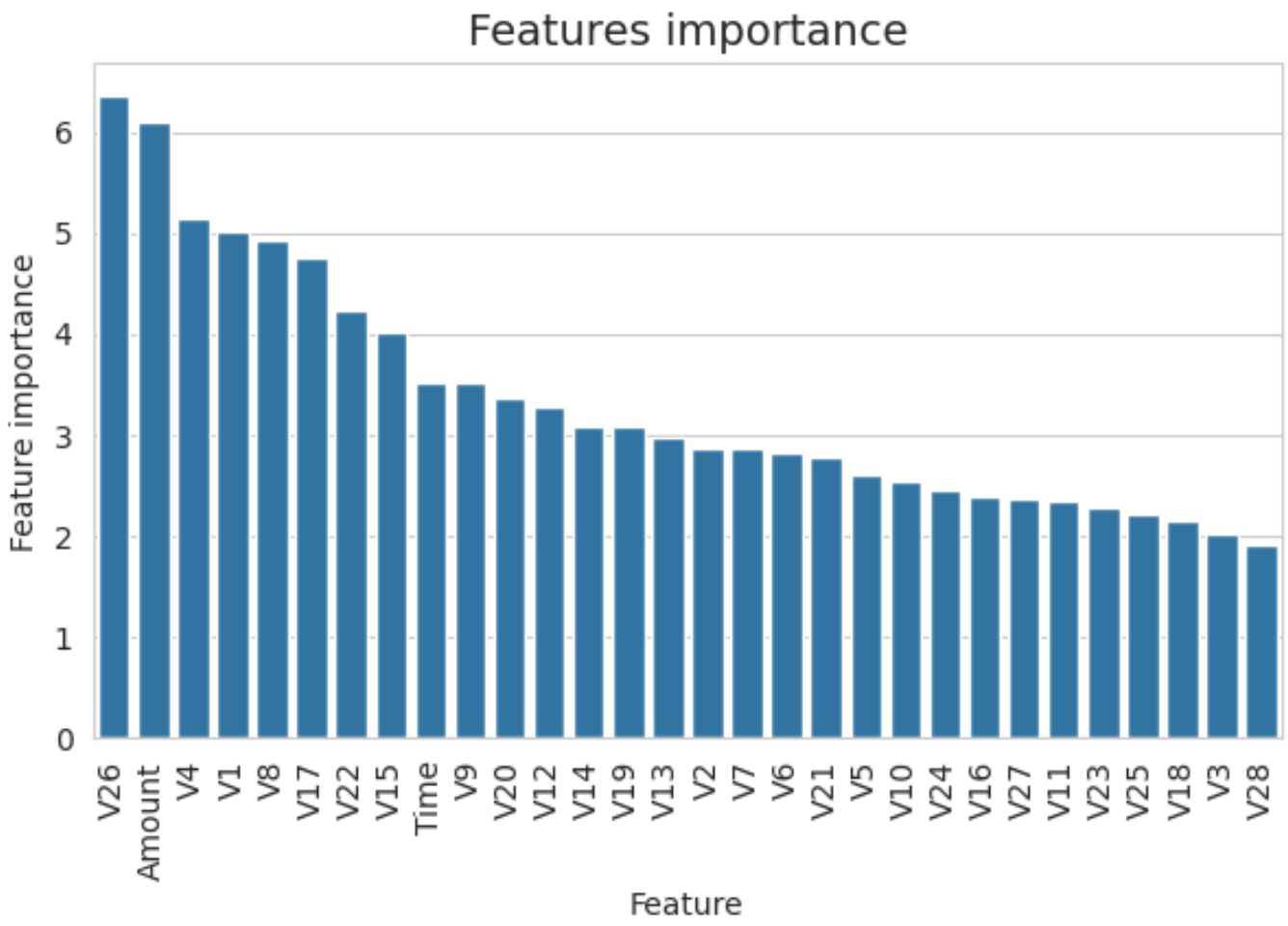
Feature Density Plot


1e−6
Density
Time
V1
V2
V3
V4
V5
V6
V7
V8
V9
V10
V11
V12
V13
V14
V15
V16
V17
V18
V19
V20
V21
V22
V23
V24
V25
V26
V27

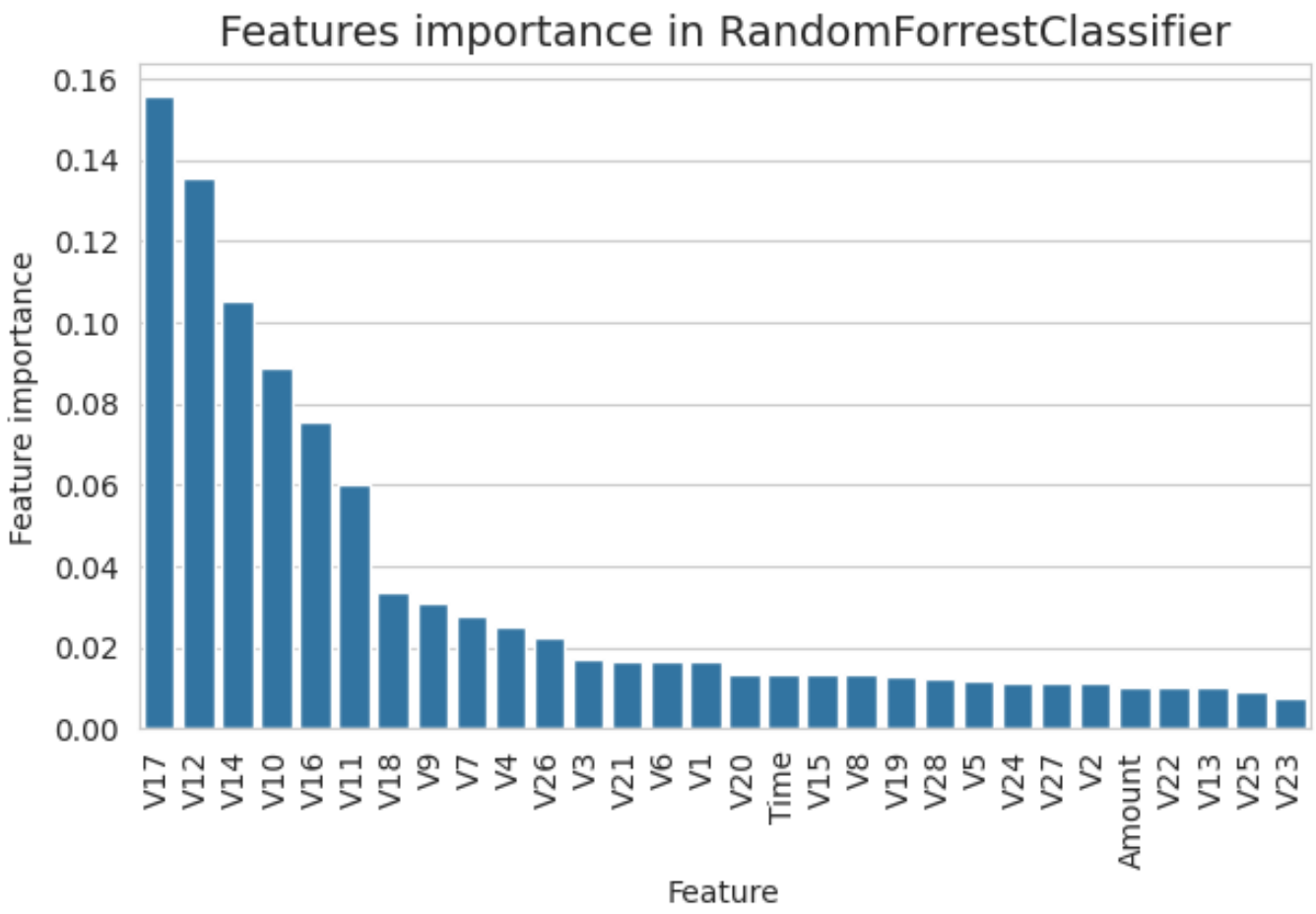
Features importance in Adaboost Classifier



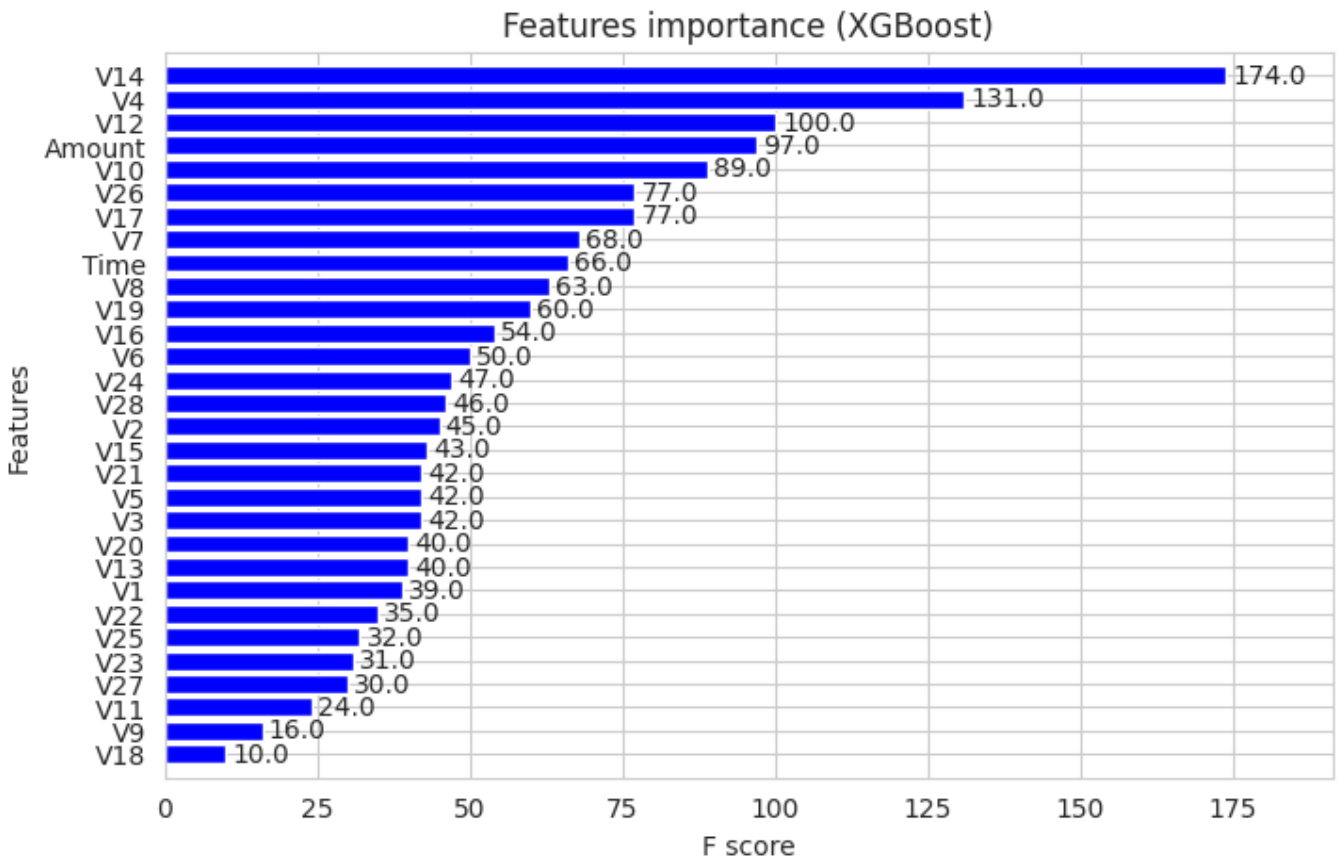
Features importance in Catboost Classifier



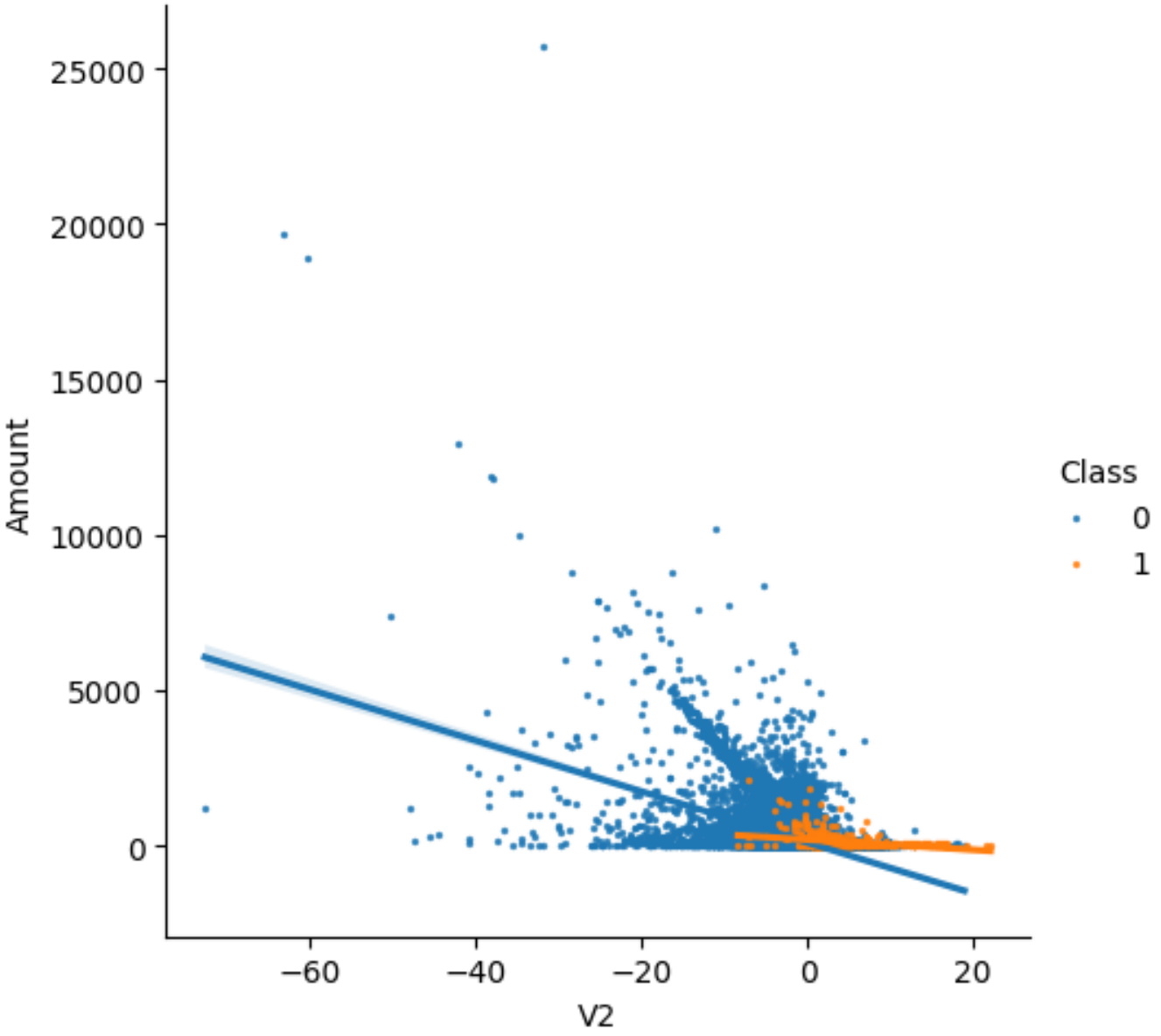
Features importance in RandomForrestClassifier



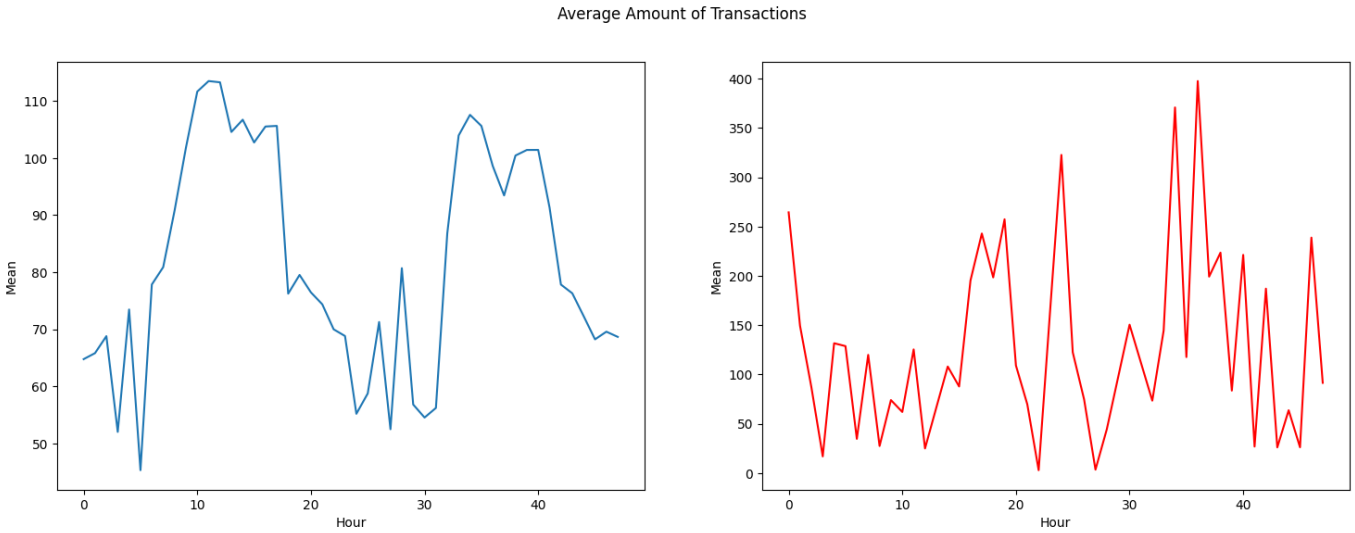
Features importance in XGBoost Classifier



Inverse Correlation between V20 and V7

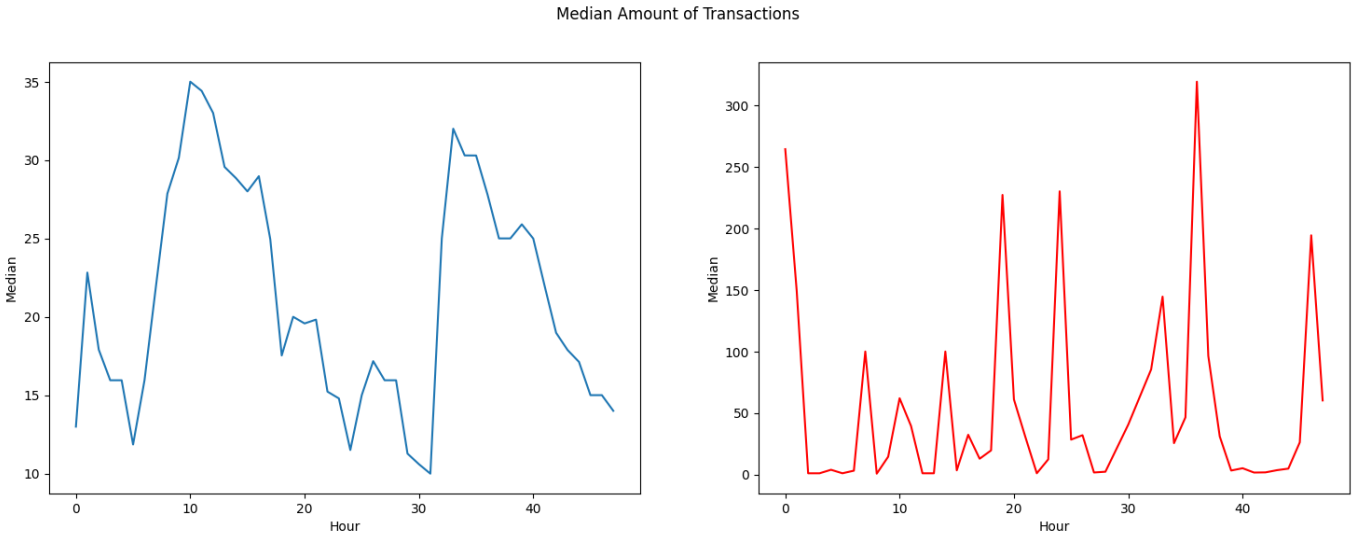


Normal vs Fraud Average no. of transaction

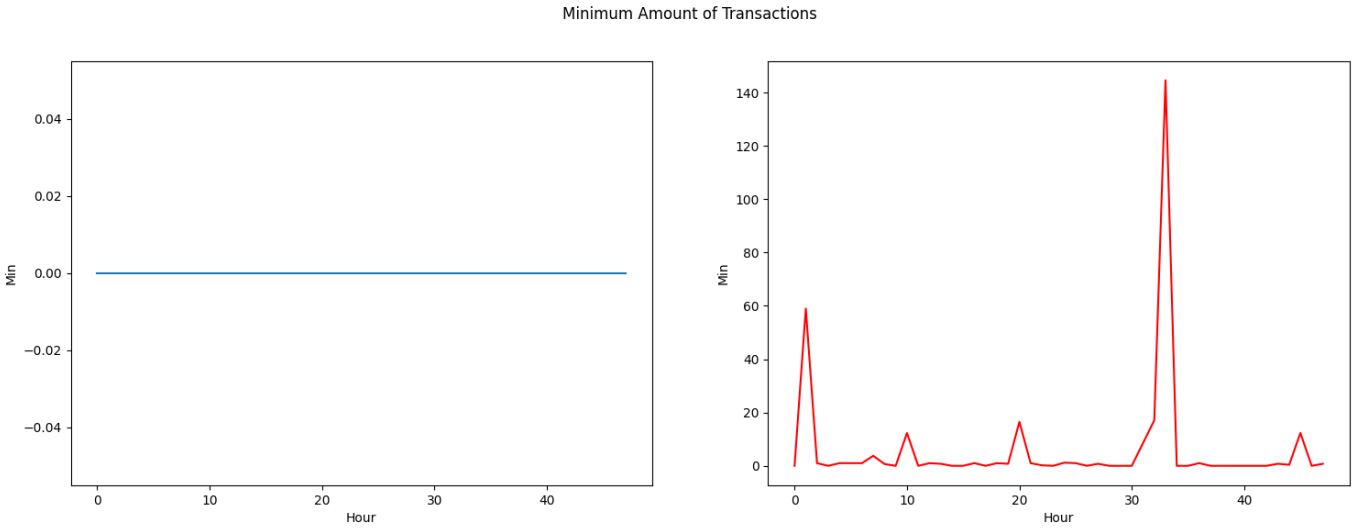


Normal vs Fraud Max ammount of transactions

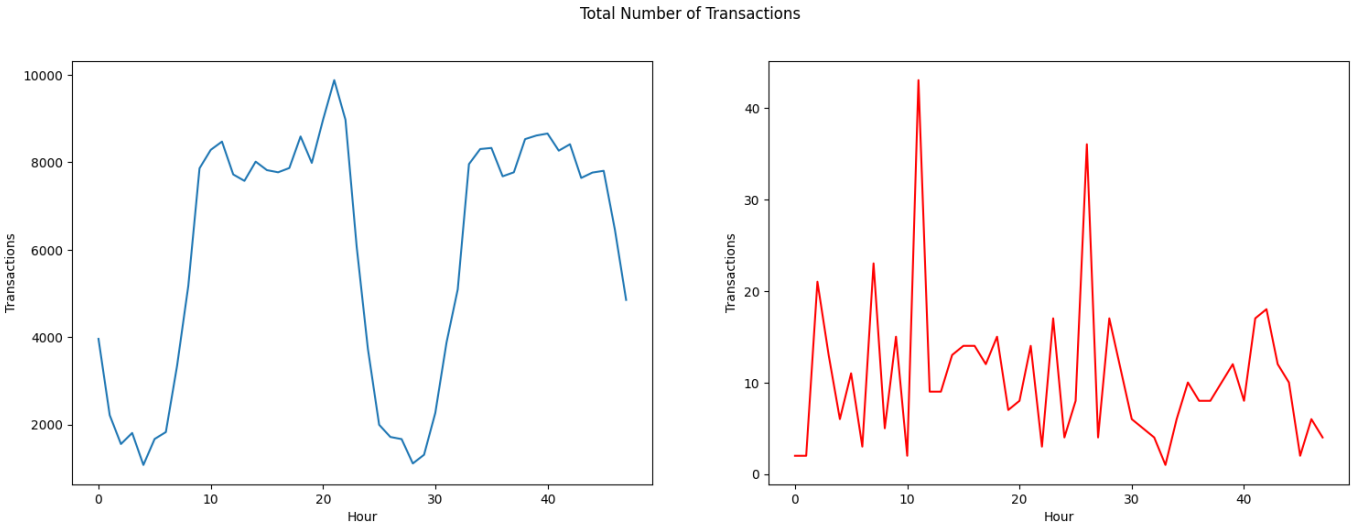
Normal vs Fraud median ammount of transactions



Normal vs Fraud Min ammount of transaction

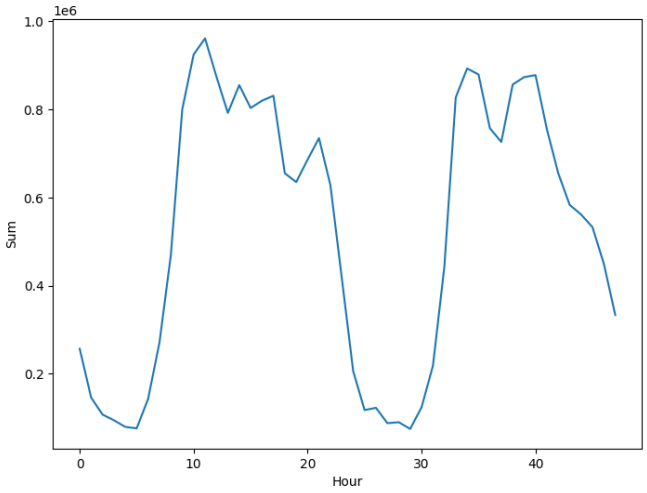


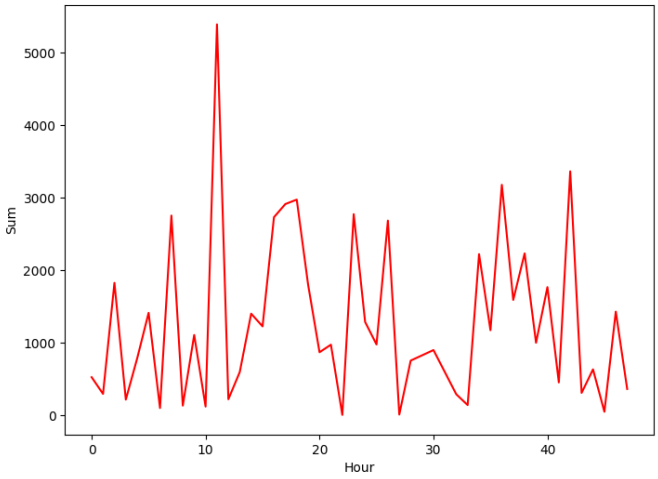
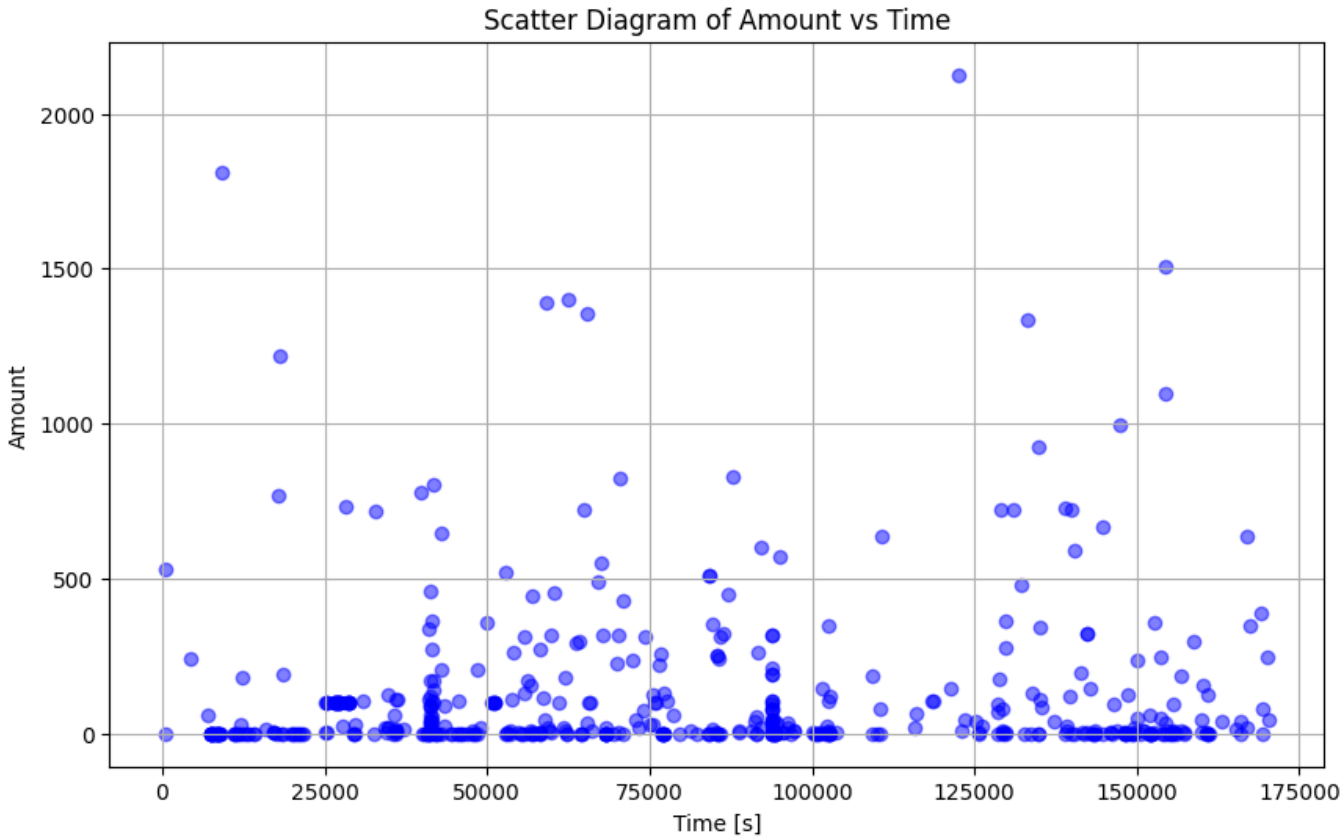
Normal vs Fraud Total no. of transaction



Normal vs Fraud transaction Total Amount by Hour

Total Amount





Scatter diagram of ammount vs time