



Fraud Detection

By Filiz Camuz

Problem



Fraud

Secure

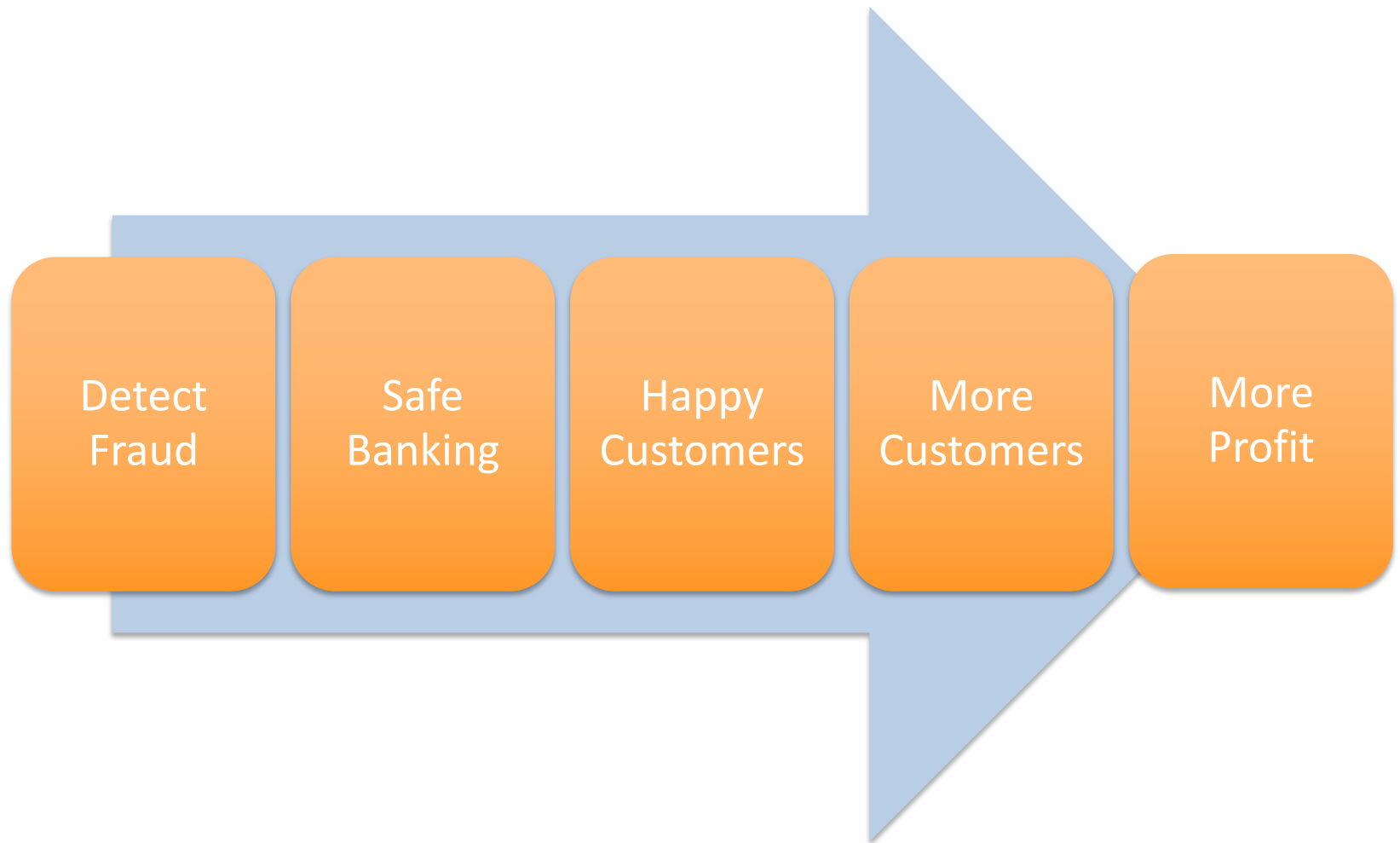
- **EDA**
- **Classification**



Random Forest
XGBoost

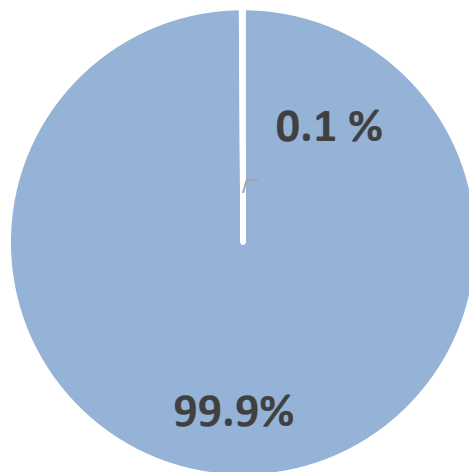


Business Value



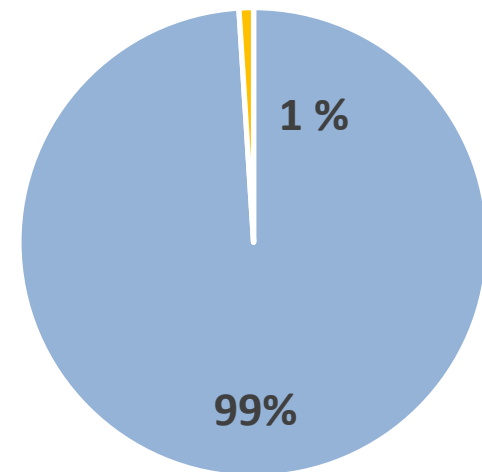
Proportions

Number of Transactions(%)



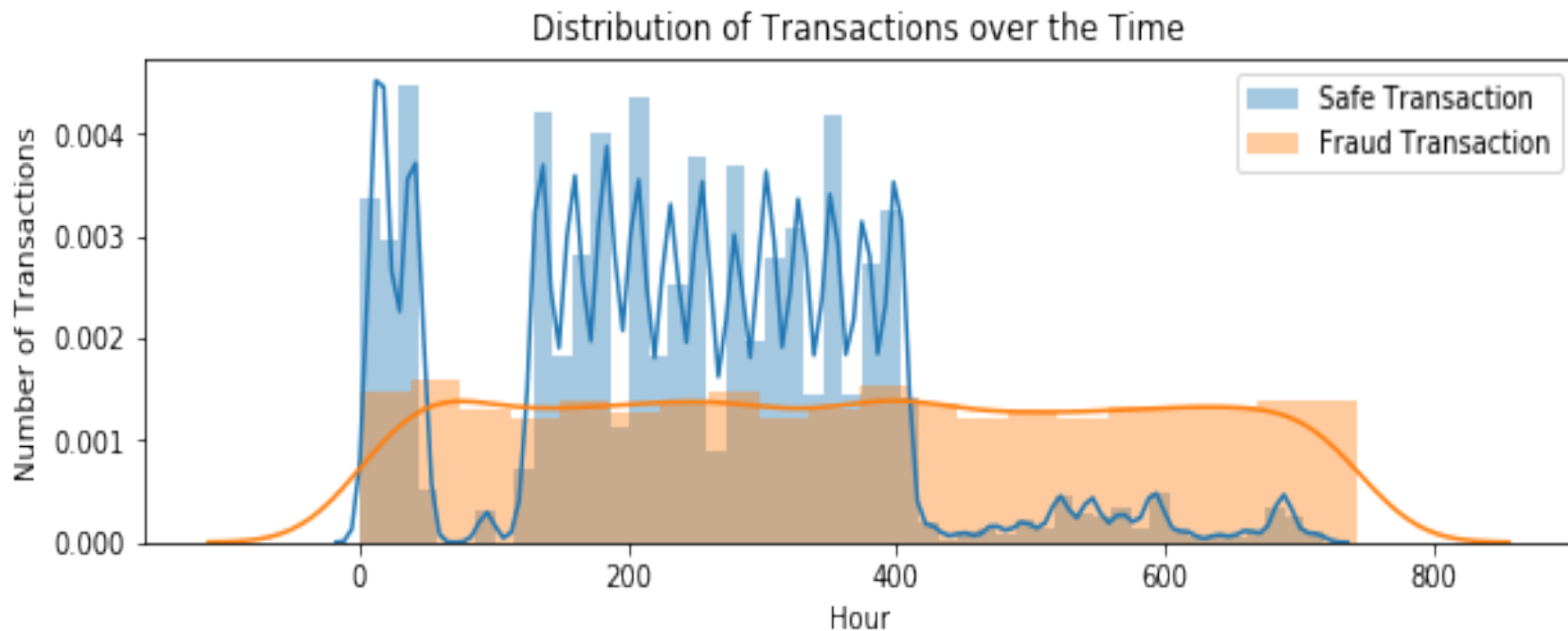
■ Safe ■ Fraud

Amount of Transactions(%)

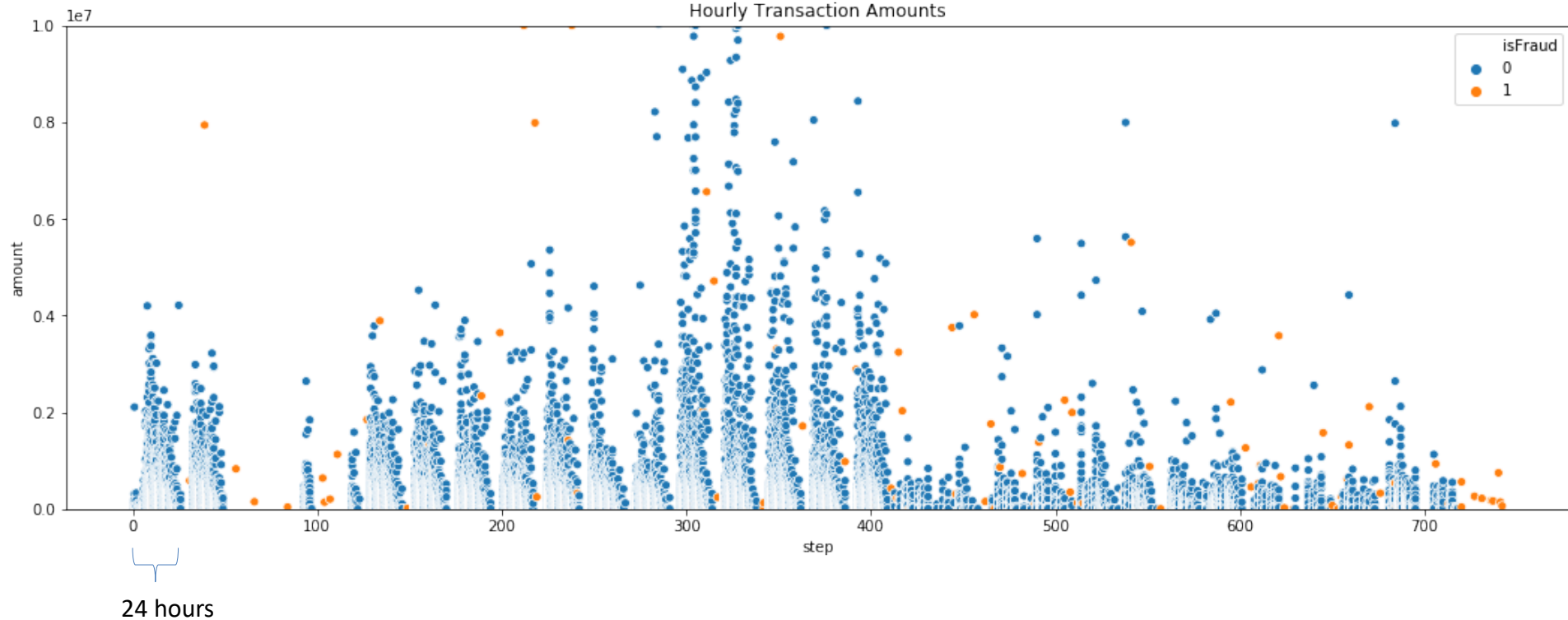


■ Safe ■ Fraud

Frequency

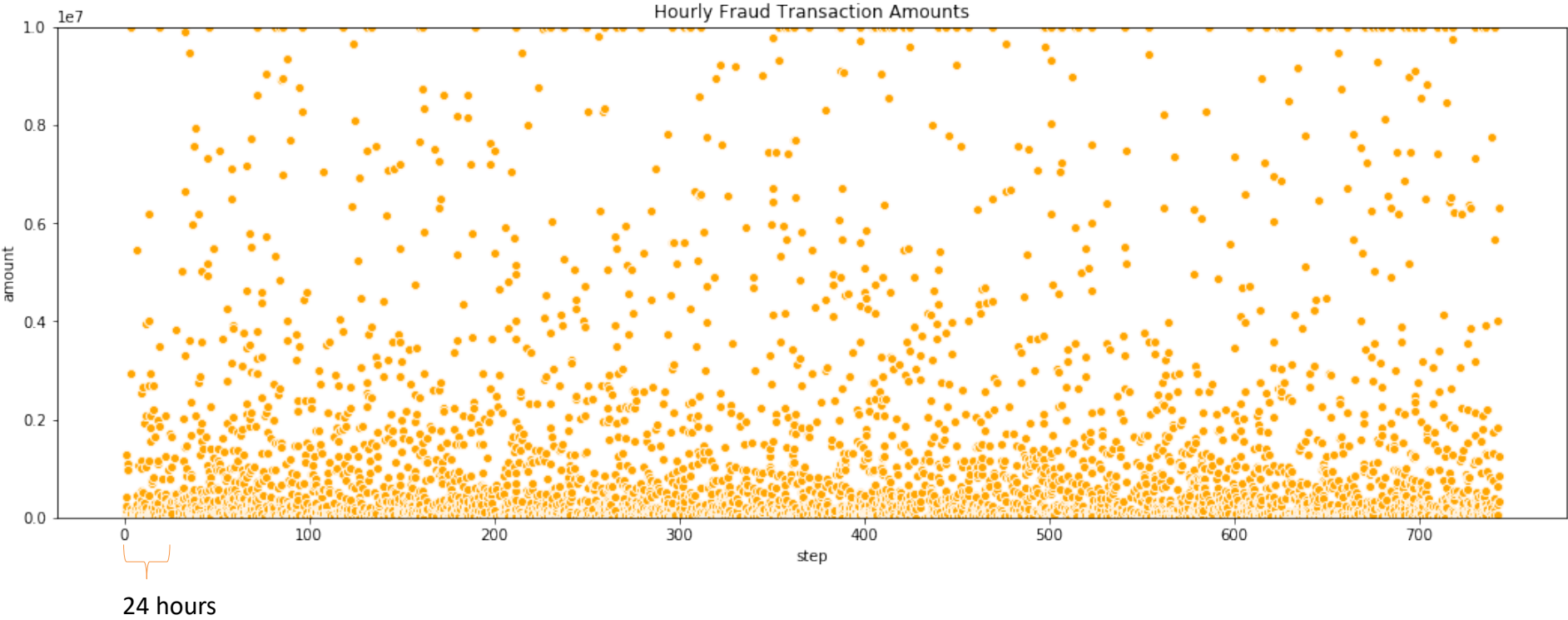


Daily Pattern



Significant daily pattern

Daily Pattern



No Significant daily pattern

Fraud Amount

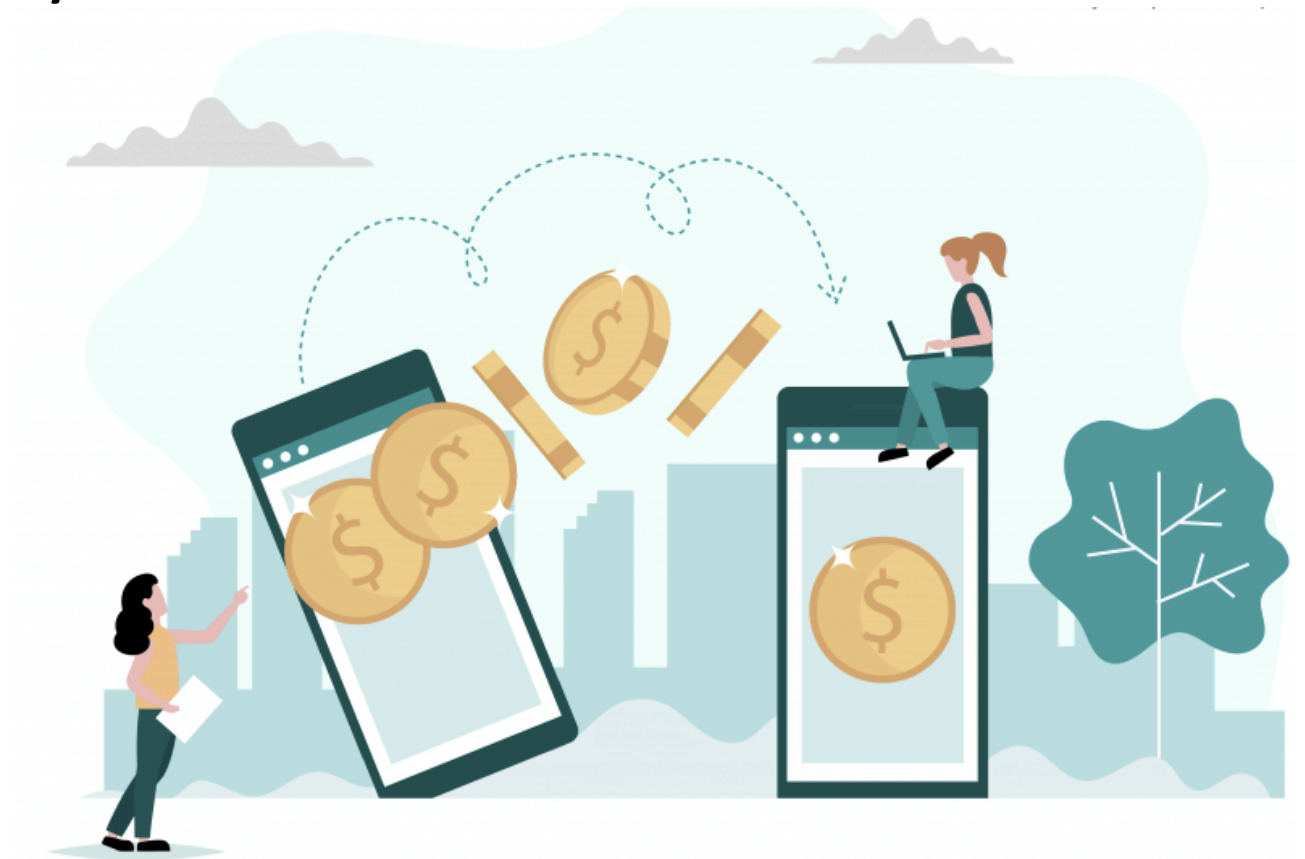
Range \$120 - \$1M

Average \$ 146.000

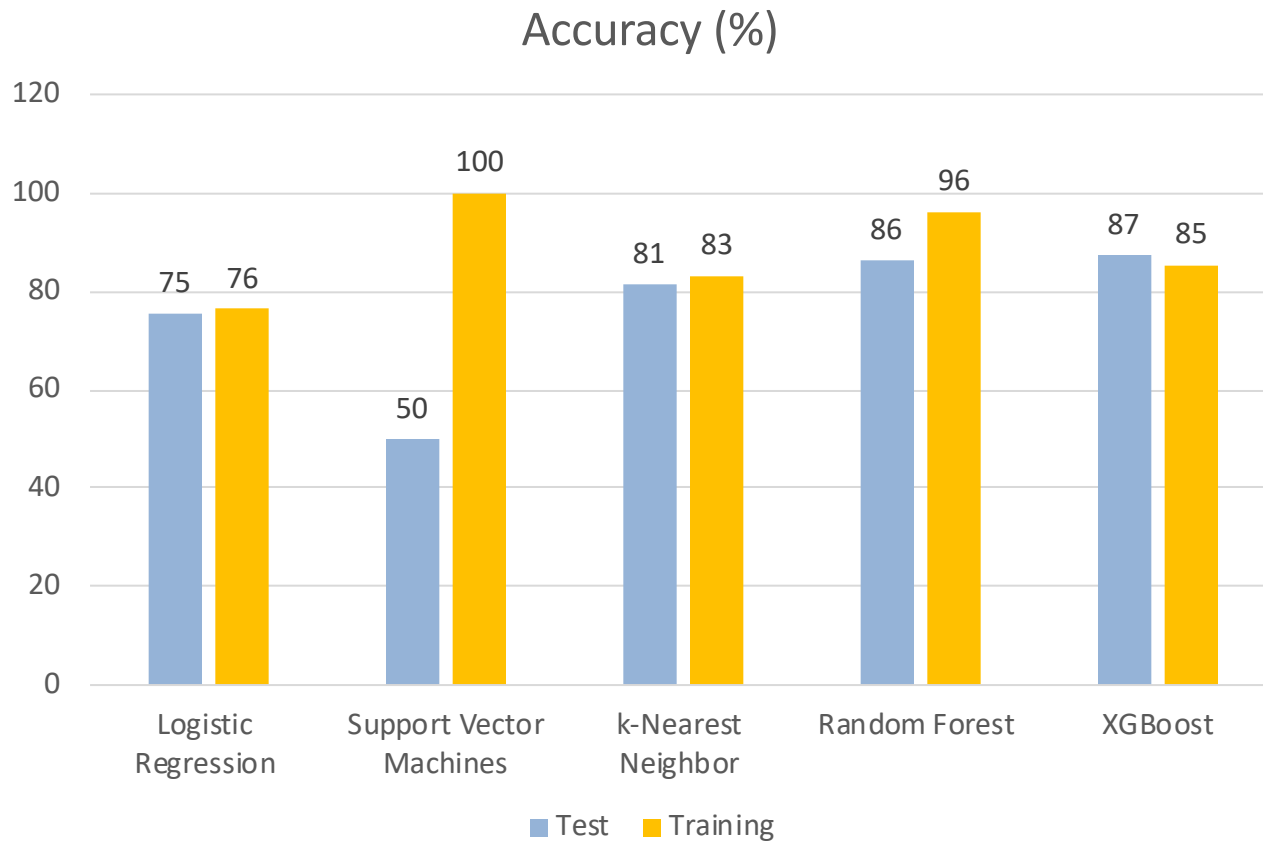


Watch Out!

Online Money Transfer
Cash-Out



Base Models

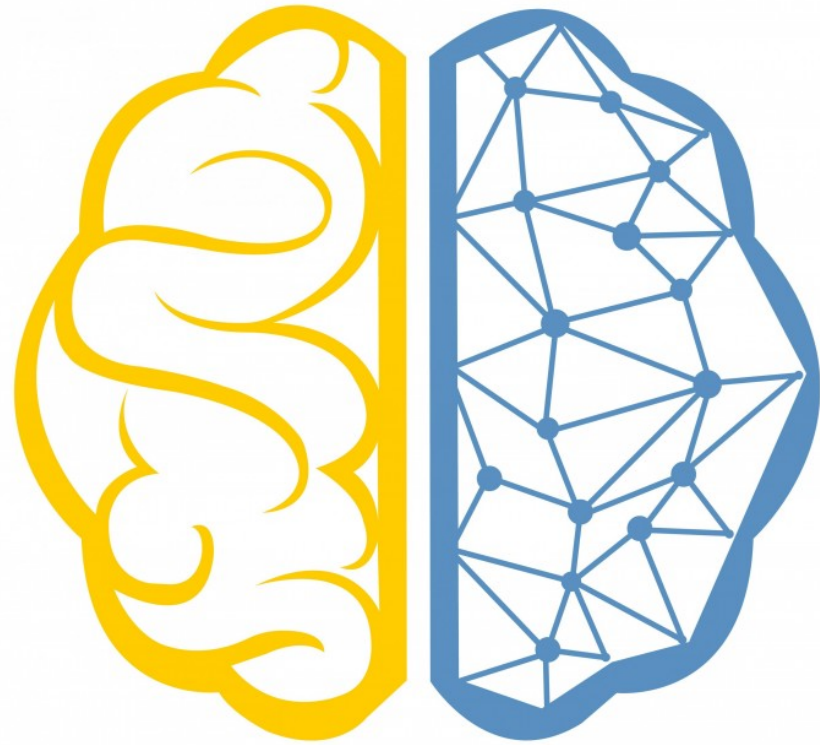


Best Model

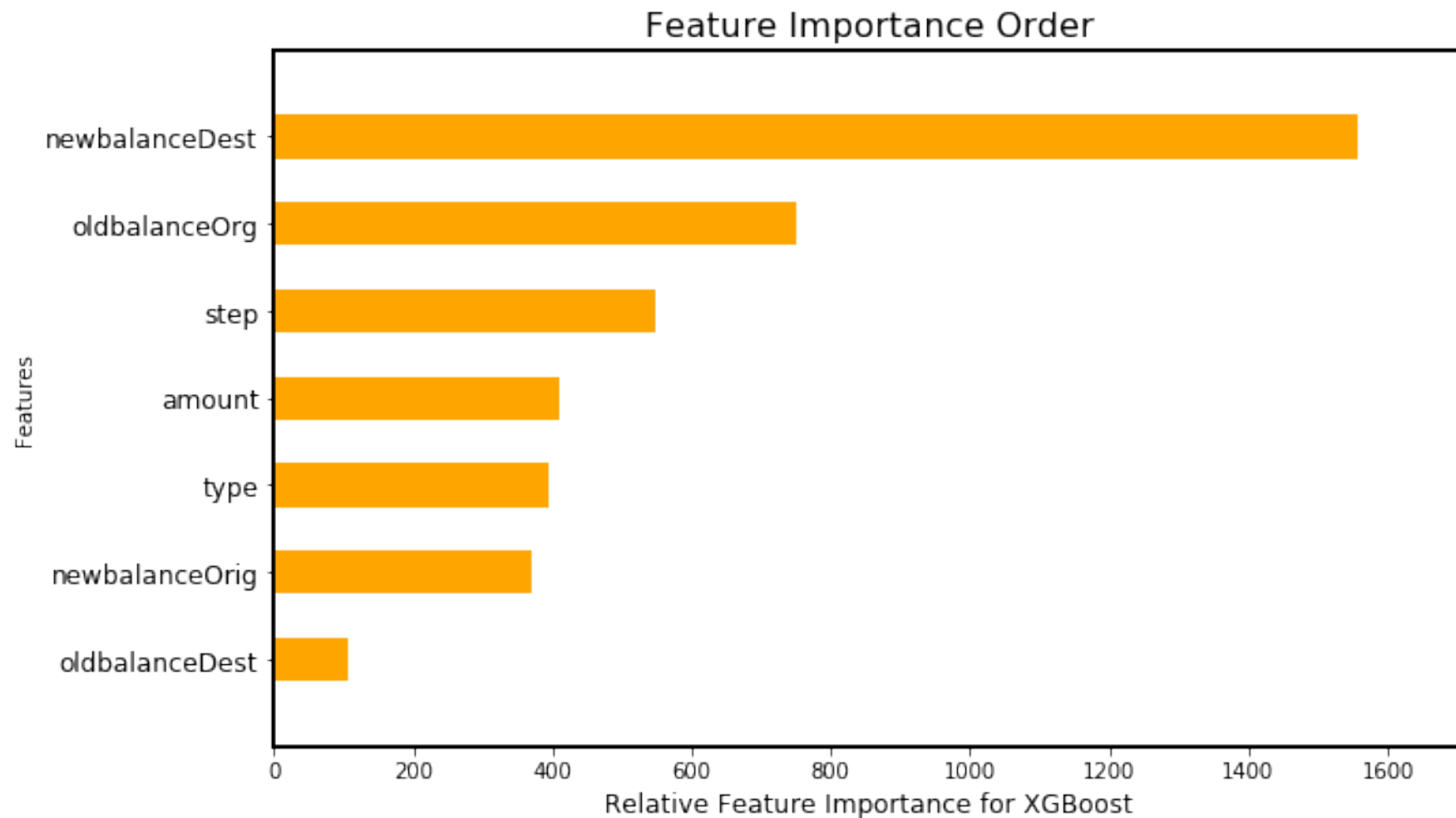
XGBoost Classification

99%

Accuracy



Features



Future Works

- Analyze the dataset as time series
- Predict possible fraud transactions



A stack of credit cards is shown in the background, slightly out of focus. The top card is a blue Visa card, and the card below it is a MasterCard. A white text box with a blue border is overlaid on the bottom half of the image.

THANK YOU

Please feel free reach me for any questions :
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