

# Fraud Transaction Detection

- The application can be accessed at [https://veeranalytics.shinyapps.io/Fraud\\_Transaction\\_Model/](https://veeranalytics.shinyapps.io/Fraud_Transaction_Model/)
- There are 04 pages:
  - Input
  - Charts
  - Summary
  - Results

# Input

It is used to get manual inputs from the user. There will be some default entries. Please change values, and then click on submit. It will update all the remaining tabs/pages automatically.

Fraud Transaction

Input

Charts

Summary

Results

Input Details

Enter the requested inputs to check model output. This PoC is developed for demonsatration purpose only. The System will send automated trigger in actual scenario, and will show a number of reports and analysis on fraudulent transactions on for selected frequency.

Select Transaction Type

TRANSFER

Enter Time of Transaction

3

Enter Amount of Transaction

10000

Enter Old Balance at Origin

10000

Enter Old Balance at Dest.

10000

Select Name of Destination

C339924917

Submission

Submit

# Charts: Default Vs Non-Default

Dynamic charts to compare various characteristics for Fraud vs. Non-Fraud transactions.

## Fraud Vs Non-Fraud Transactions

Select X-axis:

☒ isFraud

Select Y-axis:

☒ type

☐ step

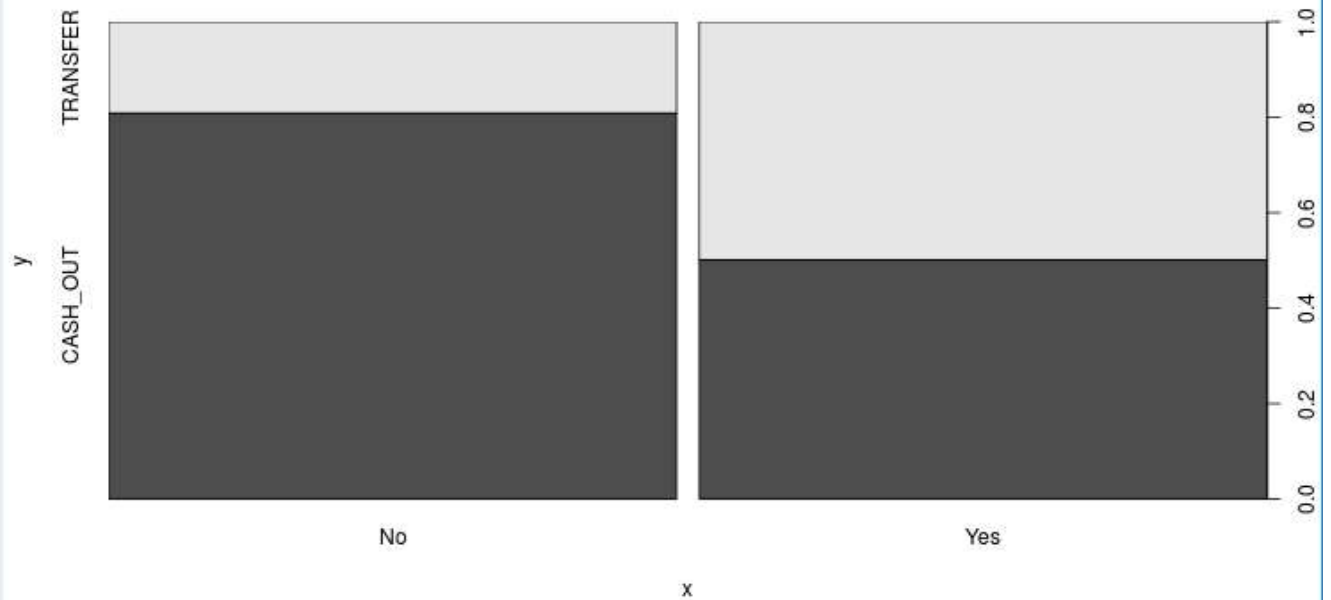
☐ amount

☐ oldbalanceOrg

☐ newbalanceOrig

☐ oldbalanceDest

☐ newbalanceDest



# Charts: Exploratory Charts

Dynamic charts to compare various characteristics for Fraud vs. Non-Fraud transactions.

## Exploratory Data Analysis

### Select X-axis:

- ☒ type
- ☐ step
- ☐ amount
- ☐ oldbalanceOrig
- ☐ newbalanceOrig
- ☐ oldbalanceDest
- ☐ newbalanceDest

### Select Y-axis:

- ☒ type
- ☐ step
- ☐ amount
- ☐ oldbalanceOrig
- ☐ newbalanceOrig
- ☐ oldbalanceDest
- ☐ newbalanceDest



# Summary

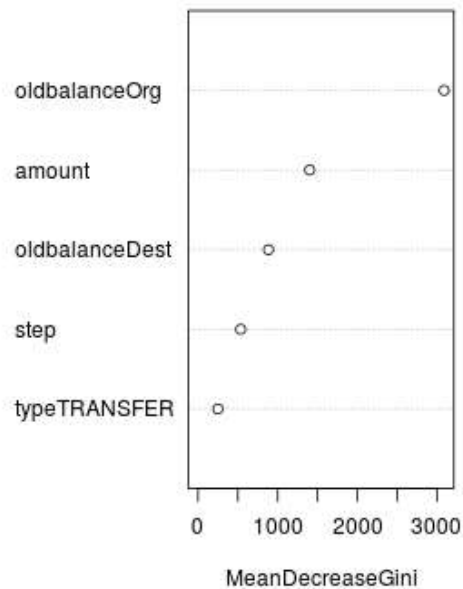
Will provide summary of the model and some related charts.

## Summary

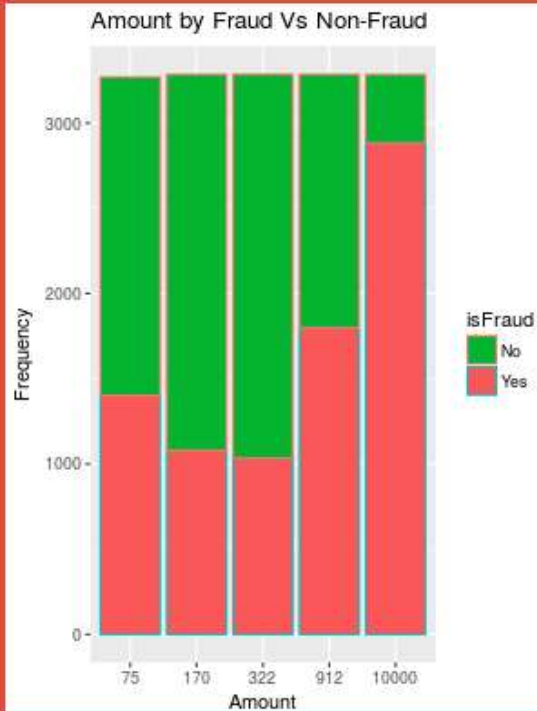
1. The most important variable for deciding Default Transaction was Old Balance at Destination. A sudden spike in balance may be an indicator of a fraud

Variable Importance

model\$finalModel



Fraud Vs. Non-Fraud by Amount



# Results

This tab shows the final output, whether the transaction was a fraud or not.

Prediction

Showing 1 to 1 of 1 entries

Search:

	type	step	amount	oldbalanceOrg	oldbalanceDest
1	TRANSFER	3	10000	10000	10000

Showing 1 to 1 of 1 entries

Previous

1

Next

Prediction

A Fraudulent Transaction