

An illustration on a dark purple background featuring various financial symbols. A white smartphone with a purple frame is positioned vertically on the left, displaying a red button with the word 'TRANSFER' in white capital letters. Surrounding the phone are several silver coins with dollar signs (\$), three teal circles with white percentage signs (%), a large orange piggy bank, a blue wallet with two coins resting on it, and three white money bags with dollar signs. The elements are arranged in a scattered, dynamic composition.

Nathan Huvelle

Metis project 4

Agenda

01

Exploratory Data Analysis

Descriptive Statistics and key numbers

02

Modeling Results

Feature importance and error metrics

03

Visualizations

Confusion matrix, ROC curve

04

Future Work

Methods for improving
Fraud detection and efficiency



368,092,000,000

Credit Card transactions globally in 2018

Key numbers in the Data

284,807

Transactions

492

Fraudulent Transactions

0.17%

Percent Fraudulent

Best Model: Random Forest

0.83

F1 Score (target)

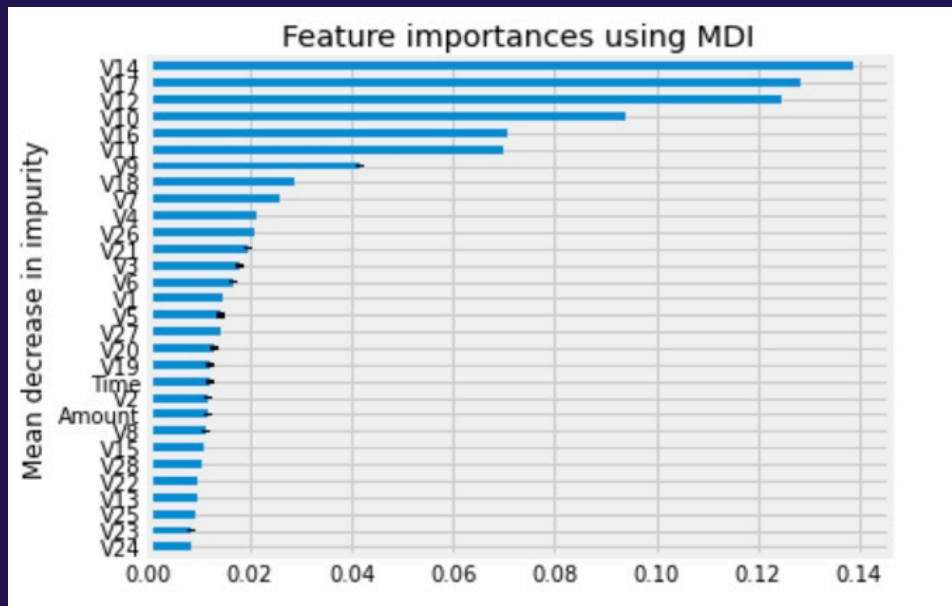
0.97

Precision

0.78

Recall

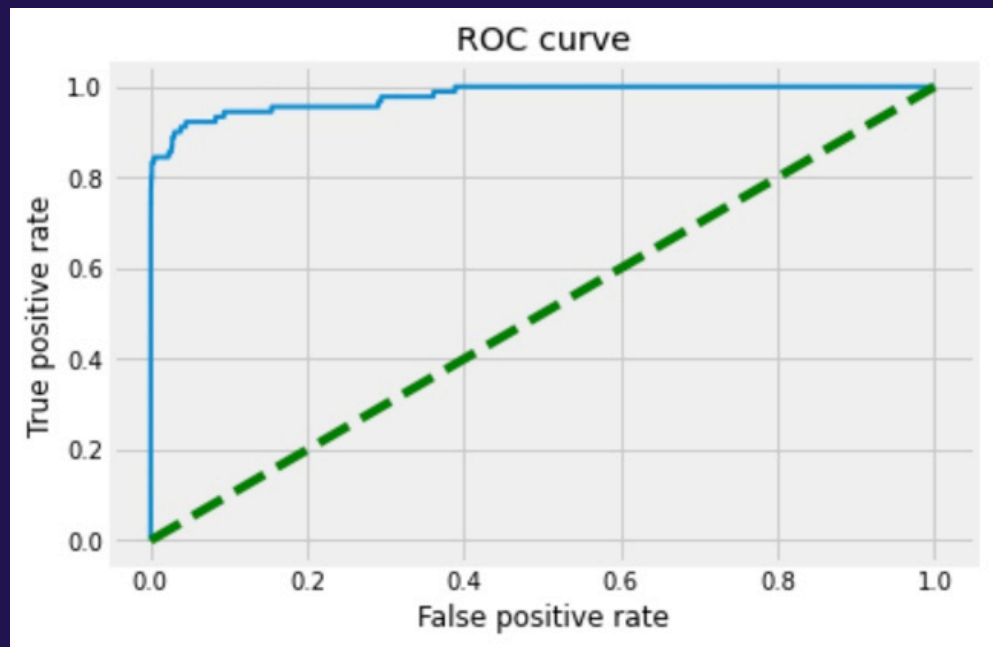
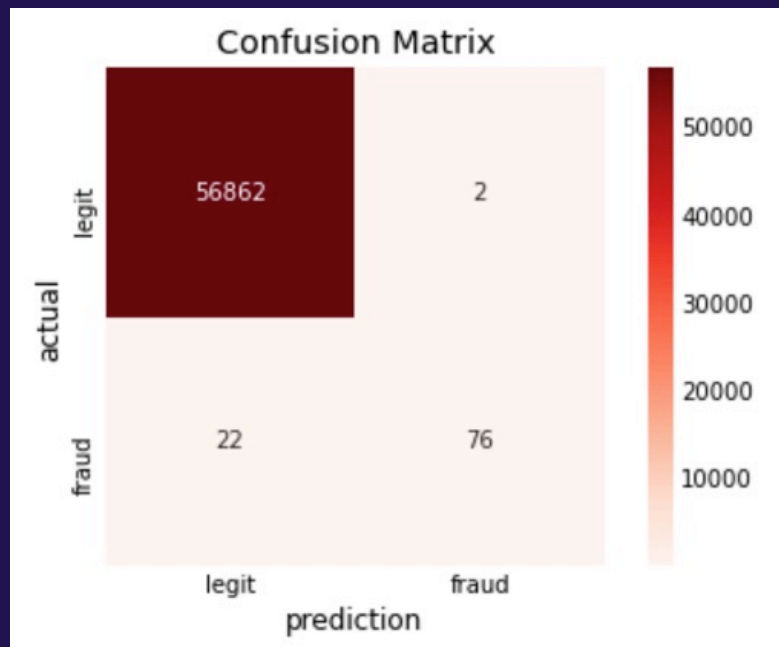
Feature Importance



A handful of features appear to stand out.

The scale of the x-axis indicates That no features were crucial.

Visual Results



Future Steps



Step 1

The client should clearly define what they want.



Step 2

The client should communicate what they want.



Step 3

The Data Scientist can now attack the problem more efficiently.



Step 4

Client's balance sheet improves due to improved insights.

Thanks

Do you have any questions?

addyouremail@freepik.com
+91 620 421 838
[yourcompany.com](#)



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