



# Credit Card Fraud Detection

Stephanie Kwan

Tiffany Meng

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# Objective

## Goal

Compare different algorithms used for anomaly detection to find most optimal model for detecting fraudulent credit card transactions

## Purpose

We wanted to get more experience using machine learning to classify data as well as learn skills such as processing data and using various libraries.

## MVP

Our minimal viable product can implement the Isolation Forest and Local Outlier Factor algorithms on a csv file of data.



# Approach

## Technologies

- ❖ Python 3
- ❖ Jupyter Notebook
- ❖ Idle3
- ❖ Sklearn
- ❖ Scipy
- ❖ Sys
- ❖ Numpy
- ❖ Pandas
- ❖ Matplotlib
- ❖ Seaborn

## Challenges

- ❖ Learning how to use Jupyter Notebook
- ❖ Understanding various libraries
- ❖ Implementing unfamiliar functions and algorithms

