Credit Card Fraud Detection

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Introduction:

Since online shopping is on the rise there is an unfortunate increase in credit card fraud. It is important that credit card companies are able to recognize fraudulent credit card transactions so that customers are not charged for items that they did not purchase.
Fraud is the issue we have here and we're trying to build a system that will predict the fraud and stop the transaction

Dataset:

The dataset contains transactions made by credit cards in September 2013 by European cardholders. This dataset presents transactions that occurred in two days, where we have 492 frauds out of 10,000 transactions. The dataset is highly unbalanced, the positive class (frauds) account for 0.0492% of all transactions.

Tools:

- **Enviroment:** Jupyter Notebook
- **Programming language:** open source python libraries (Pandas, Numby, Sklearn ,Matplotlib)

MVP:

- Load data
- EDA
- Data Cleaning and preprocessing
- Modeling
- Predict
- Evaluate