CREDIT CARD FRAUD DETECTION PROPOSAL

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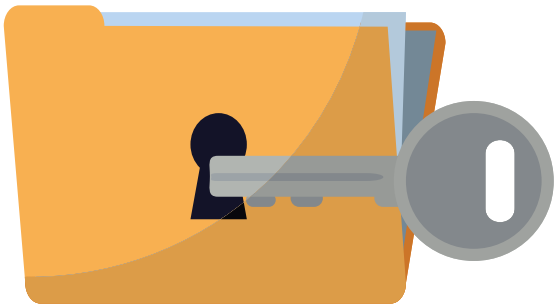

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ABSTRACT

Financial fraud is an evolving threat with numerous consequences in financial dealings. There are many criminal activities taking place in the financial field, credit card fraud activities are the most.
It is important for businesses to detect credit card fraud.
Detecting credit card fraud becomes a challenge for
The following reasons, first, change the profiles of real users and fraudulent behavior
Consistently and secondly, the credit card fraud data sets are very skewed. In this paper, credit
Card fraud is detected using several methods to detect defects or detect anomalies using probability densities

DATASET

For this project we are using a dataset that is hosted on Kaggle.com. https://www.kaggle.com/mlg-ulb/creditcardfraud
In our dataset we have 30 parameters, we have the time and the amount of the transaction as well as 28 other features that are result of a PCA(Principal component analysis) dimensionality reduction in order to protect the identity and the sensitive information involved in these credit card transactions.

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COLUMN	DESCRIPTION
Time	Number of seconds elapsed between new transaction and the first transaction
V1	a result of PCA Dimensionality Reduction
V2	
..	
V28	
Amount	Transaction Amount
Class	1 for fraudulent transactions and 0 for genuine

TOOLS

Technology :

1. Python
2. Jupyter Notebook

Libraries :

1. NumPy
2. Pandas
3. Matplotlib
4. Seaborn

We plan to use the following algorithms in our project

- Logistic Regression
- Random Forest
- Decision trees