CREDIT CARD FRAUD DETECTION WRITE UP

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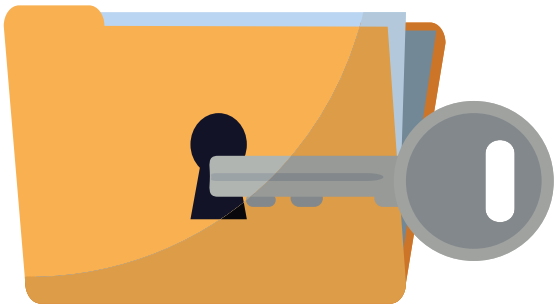

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ABSTRACT

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

DESIGN

The purpose of this project is to help financial institutions and their customers to have a
better experience when dealing with credit card transactions. This will prevent banks
from losing money and help customers have a better sense of mind, knowing their
money is safe. The data comes from a simulated data set that mimics real credit card
transactions.

DATA

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.

ALGORITHMS

- **Logistic Regression**
- **Random Forest**
- **Decision trees**
- **naive bayes**

TOOLS

Technology :

1. Python
2. Jupyter Notebook

Libraries :

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

COMMUNICATION