

## **Credit Card Fraud Detection**

**Abstract:** Now-a-days, everyone has a credit card for shopping or buying groceries at Walmart or Sam's club. It is as important for any store to know whether the transaction is genuine or not. So, our project idea is to detect the credit card fraud happening whenever customer is not a genuine person. Thus, it leads to credit fraud in the bank name whoever has issued the card to the ingenuine customer.

**Description:** The credit fraud in today's world has increased to considerable number of times to 0.17% of transactions happened in total. Thus, the project deals with the credit fraud detection based on imbalanced dataset of 99.83% not fraud dataset and 0.17% fraud dataset. We will look at the features of the dataset where the fraud has happened in the dataset. The accuracy of the project is taken by equal distribution of the non-fraud dataset randomly. Thus, the balanced dataset would be used to train the model of Machine learning algorithms. At last, we will show the accuracy of the project by the end of the semester.

**Tools:** Amazon Sage maker, AWS S3.

**Dataset URL:** <https://www.kaggle.com/mlg-ulb/creditcardfraud>

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