Credit Card Fraud Detection

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PROBLEM STATEMENT

- Frequency Of Fraudulent
- To transaction is fraudulent or legitimate?
- Credit Card Frauds: Online and Offline

BUSINESS VALUES

- Reduce risk of fraudulent.
- Predict the fraudulent and lesser the chance of fraud.

METHODOLOGY

- Data Cleaning
- Feature Engineering
- Logistic Regression
- K Nearest Neighbour
- Decision Tree Classifier
- Adaboost Classifier
- Naïve Bayes

FINDINGS

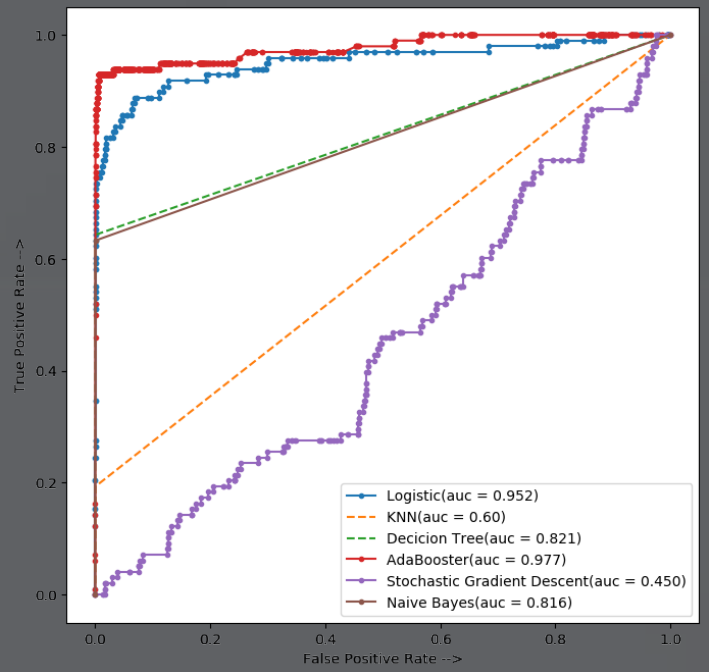
Top Machine Learning Models Findings

❖ Logistic Regression	→ Area Under Curve - 0.952
❖ Decision Tree Classifier	→ Area Under Curve - 0.821
❖ Adaboost Classifier	→ Area Under Curve - 0.977
❖ Naïve Bayes	→ Area Under Curve - 0.816
❖ KNN	→ Area Under Curve - 0.600
❖ SGD	→ Area Under Curve - 0.450

GRAPHICAL REPRESENTATION

Graphical Representation of Findings

- In above figure we can clearly state that Adaboost Classifier has performed extremely well with having 97% of Area under curve. Logistic Regression Classifier also performed well but still slightly below from Adaboost Classifier



FUTURE WORK

- Anomaly Prediction Using Deep Learning

Thank You

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