Project: Credit Card Fraud Detection

- Objective: Develop a model to detect fraudulent transactions.
- Dataset: Credit Card Fraud Detection

Project Goals:

Data Collection:

- Import the credit card transaction dataset.
- Ensure data privacy and security compliance.

Data Exploration:

- Identify the percentage of fraudulent transactions.
- Detect anomalies in transaction amounts.

Data Preprocessing:

- Handle imbalanced data using SMOTE.
- · Normalize numerical features for model training.

Exploratory Data Analysis (EDA):

- Use histograms and boxplots to analyze transaction distributions.
- Identify correlations between transaction features.

Feature Selection:

• Use feature importance techniques to focus on key fraud indicators.

Conclusion:

Develop an AI model to flag suspicious transactions in real-time.