ONLINE PAYMENTS FRAUD DETECTION USING MACHINE LEARNING

ENTICE
Fraud cases increase in digital payments.
Banks need an intelligent automated fraud detection system.
Goal: Reduce fraud losses and secure transactions.

ENTER
Collect credit card transaction dataset.
Preprocess data using Python, Pandas, NumPy.
Goal: Understand transaction behavior.

ENGAGE
Train Machine Learning models:
• Logistic Regression
• Random Forest (Final Model)
Goal: Learn hidden fraud patterns.

EXIT
Model predicts whether transaction is Fraud or Genuine.
Evaluate using Accuracy, Precision, Recall, F1 Score.
Goal: Stop fraud before financial loss.

EXTEND
Deploy system for real-time banking & online payment monitoring.
Future enhancement with Deep Learning & Live APIs.
Goal: Maintain long-term digital payment security.