

## Project Title:

**“Detecting Fraud Patterns in Bank Transactions”**

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## Problem Statement:

The bank receives hundreds of thousands of transactions daily. Due to limited automation, many fraudulent activities go unnoticed or are flagged too late. Manual review is slow, and alerts are often false positives. The goal is to analyze transaction trends, detect anomalies, and propose improved fraud alert workflows.

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## Business Objectives:

Identify customers with unusual or high-risk behavior

Pinpoint peak fraud times, channels, and locations

Recommend automation for fraud flagging

Reduce false positives in manual review queues

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## Stakeholders:

Role	Interest
Fraud Ops Team	Want to reduce manual effort and catch real fraud
Compliance	Need audit trails and flag definitions
IT/Data Team	Support implementation of fraud logic
Customers	Want fast, secure, and trustworthy banking

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## Tools:

**Excel** – Data cleaning and flags

**SQL Server / PostgreSQL** – Transaction querying and logic

**Power BI** – Real-time fraud trends dashboard