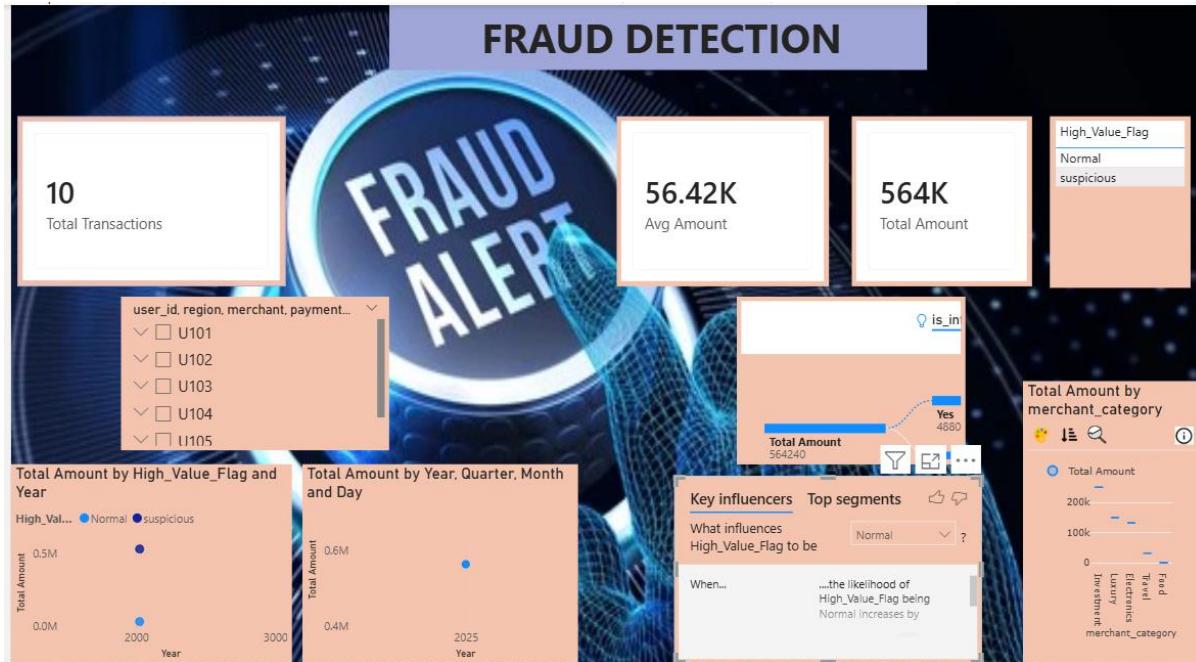
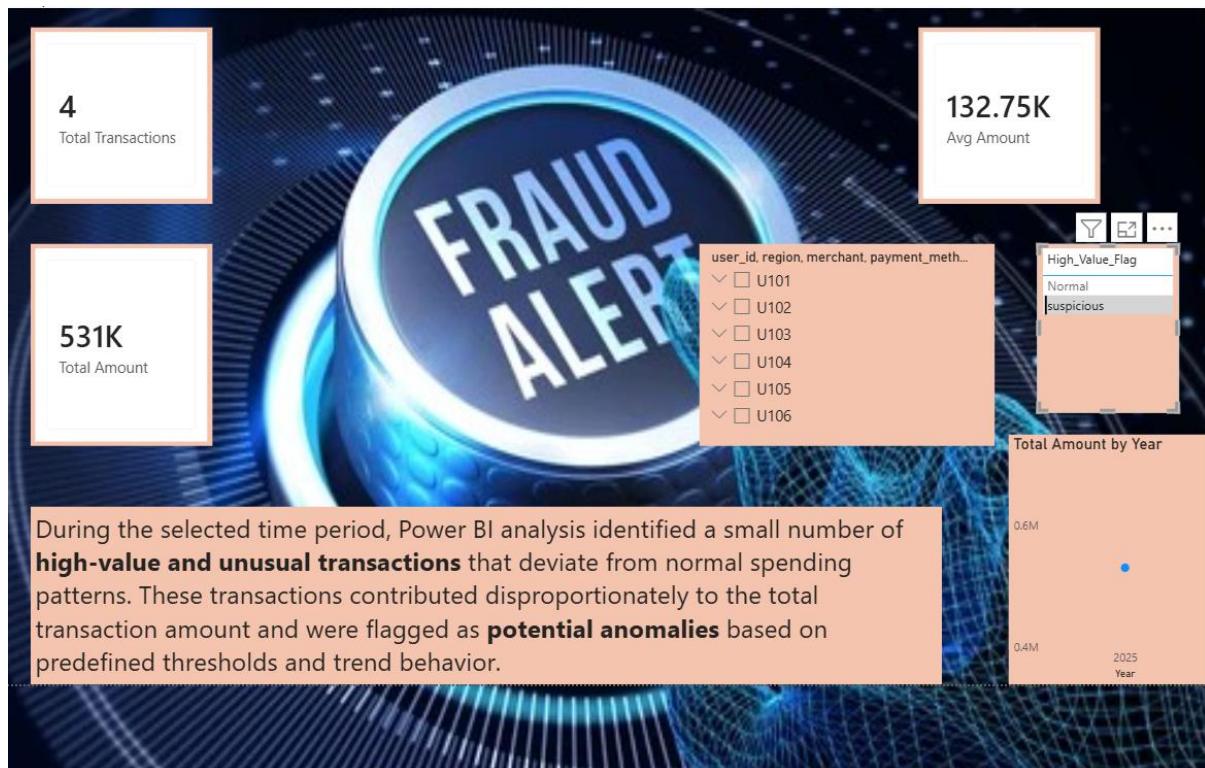


# Financial Fraud / Anomaly Monitoring Report

## Problem Statement

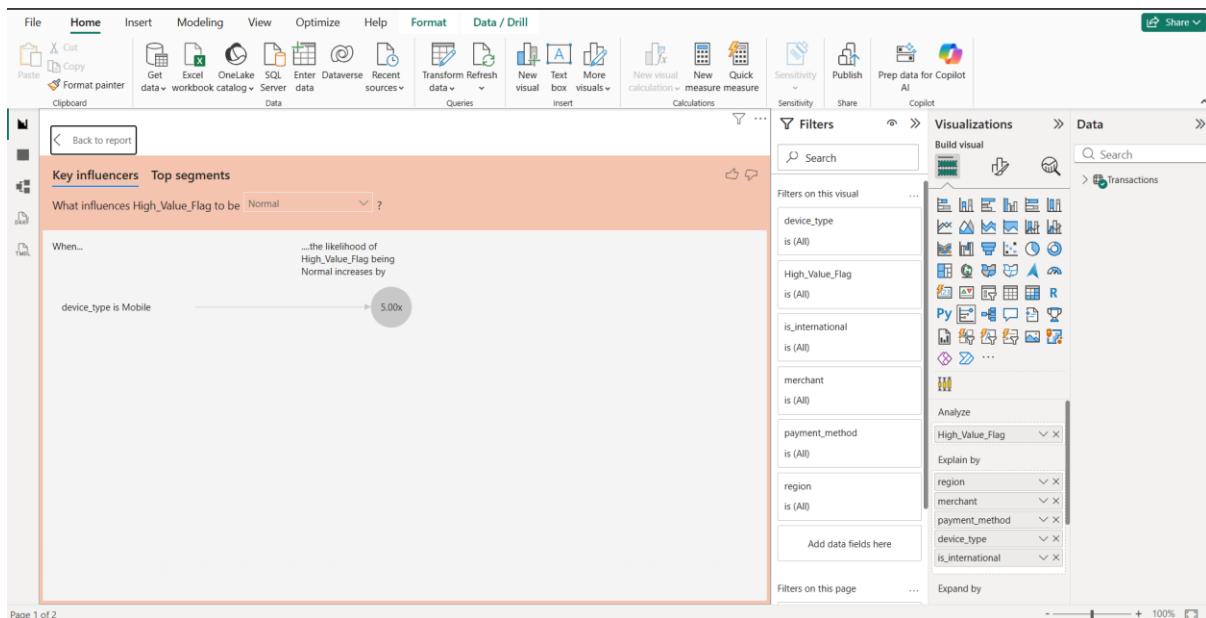
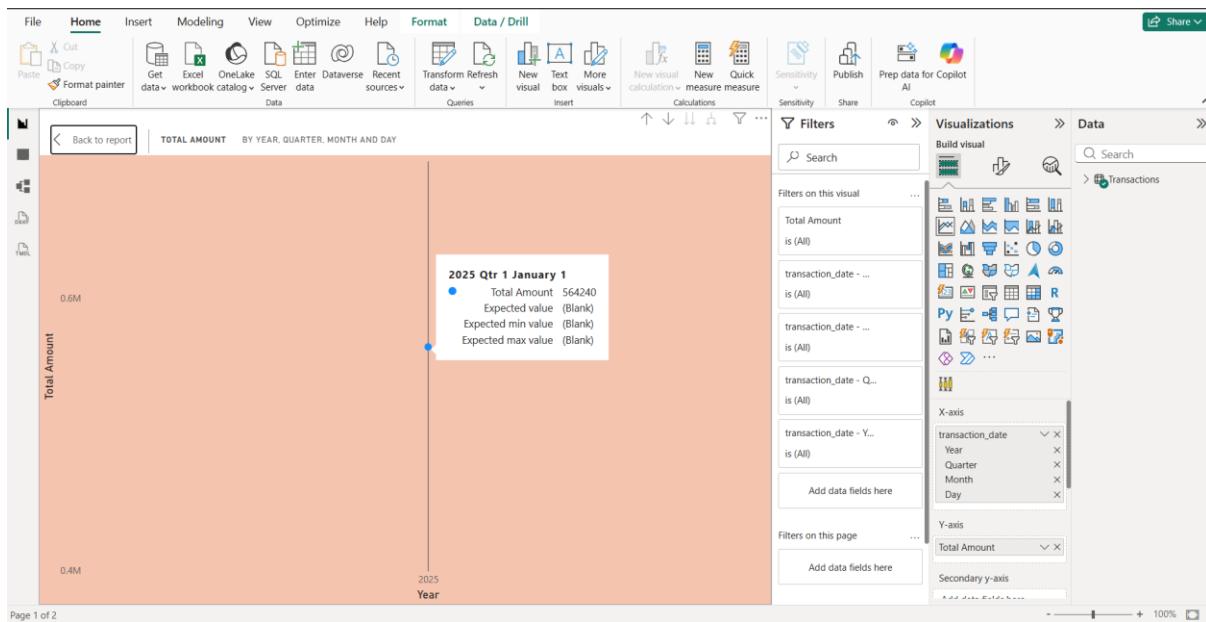
Develop an anomaly detection analytics workflow using Python EDA + Power BI AI visuals, supported by GenAI to auto-generate narrative summaries and recommended checks.





The screenshot shows the Power BI desktop application with the following details:

- Ribbon:** File, Home, Insert, Modeling, View, Optimize, Help, Format, Data / Drill.
- Clipboard:** Paste, Cut, Copy, Format painter.
- Data:** Get data (Excel, OneLake, SQL Server, Data), Recent sources, Transform data, Queries, New visual, Text box, More data, New measure, New calculation, Calculations.
- Format:** Sensitivity, Publish, Prep data for Copilot, AI, Copilot.
- Visualizations:** Filters, Visualizations, Data.
- Filters:** is\_international, merchant, region, Total Amount, user\_id.
- Analyze:** Explain by, is\_international, region, merchant, user\_id.
- Tooltips:** Add data fields here.
- Page:** Page 1 of 2.



File Home Insert Modeling View Optimize Help Format Data / Drill

Cut Copy Format painter Clipboard

Get data Excel OneLake Server Data Refresh data Recent sources Data Queries Transform data New visual Text box More visuals Insert Calculations New visual calculation New measure Quick measure

Sensitivity Share Prep data for Copilot AI Copilot

Filters Visualizations Data

Search

Filters on this visual

- is\_international is (All)
- merchant is (All)
- payment\_method is (All)
- region is (All)
- user\_id is (All)

Add data fields here

Filters on this page

Drill through

Cross-report off Keep all filters on

Page 1 of 2

This screenshot shows the Power BI desktop interface. The top navigation bar includes File, Home, Insert, Modeling, View, Optimize, Help, Format, and Data / Drill. The ribbon below has sections for Cut, Copy, Format painter, Clipboard, Get data, Excel, OneLake, Server, Data, Refresh data, Recent sources, Data, Queries, Transform data, New visual, Text box, More visuals, Insert, Calculations, New visual calculation, New measure, Quick measure, Sensitivity, Share, Prep data for Copilot AI, and Copilot. The main area displays a report structure with a tree view of user IDs and regions. The right side features three panes: Filters, Visualizations, and Data. The Filters pane shows various field filters like is\_international, merchant, payment\_method, region, and user\_id. The Visualizations pane contains icons for different chart types. The Data pane shows a search bar and a transactions section. A status bar at the bottom indicates Page 1 of 2.

File Home Insert Modeling View Optimize Help Format Data / Drill

Cut Copy Format painter Clipboard

Get data Excel OneLake Server Data Refresh data Recent sources Data Queries Transform data New visual Text box More visuals Insert Calculations New visual calculation New measure Quick measure

Sensitivity Share Prep data for Copilot AI Copilot

Filters Visualizations Data

Search

Filters on this visual

- merchant\_category is (All)
- Total Amount is (All)

Add data fields here

Filters on this page

Category

- merchant\_category Value 1 Total Amount
- Value 2 Add data fields here
- Value 3 Add data fields here

Filters on all pages

Add data fields here

Page 1 of 2

This screenshot shows the Power BI desktop interface. The top navigation bar includes File, Home, Insert, Modeling, View, Optimize, Help, Format, and Data / Drill. The ribbon below has sections for Cut, Copy, Format painter, Clipboard, Get data, Excel, OneLake, Server, Data, Refresh data, Recent sources, Data, Queries, Transform data, New visual, Text box, More visuals, Insert, Calculations, New visual calculation, New measure, Quick measure, Sensitivity, Share, Prep data for Copilot AI, and Copilot. The main area displays a chart titled 'TOTAL AMOUNT BY MERCHANT\_CATEGORY'. The Y-axis is labeled 'Total Amount' with ticks at 0, 50k, 100k, 150k, 200k, and 250k. The X-axis is labeled 'merchant\_category' with categories: Investment, Luxury, Electronics, Travel, and Food. The chart is a stacked bar chart. The right side features three panes: Filters, Visualizations, and Data. The Filters pane shows filters for merchant\_category and Total Amount. The Visualizations pane contains icons for different chart types. The Data pane shows a search bar and a transactions section. A status bar at the bottom indicates Page 1 of 2.

