AZURE DATA PIPELINE

For TechRetail

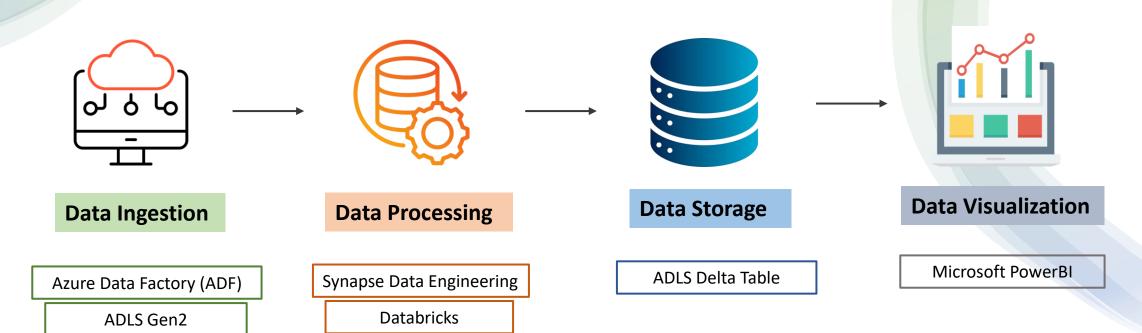
Group 4:

- Arnab Saha
- Debadrita Acharjee
- Kumkum Baswal

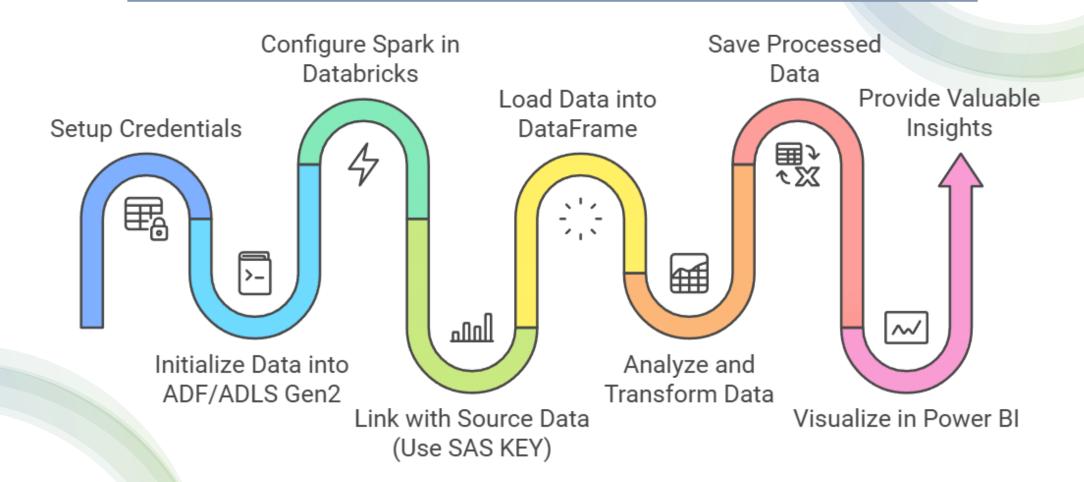
Background:

• **TechRetail**, a mid-sized retail company, wants to create a data pipeline to collect retail data from various sources, process it using advanced analytics, and visualize the results in a dashboard. The goal is to gain insights into sales trends and improve decision-making. The company wants to leverage Azure Databricks for data processing and Microsoft Fabric for data integration and visualization.

Objectives:



Architectural Process Flow:



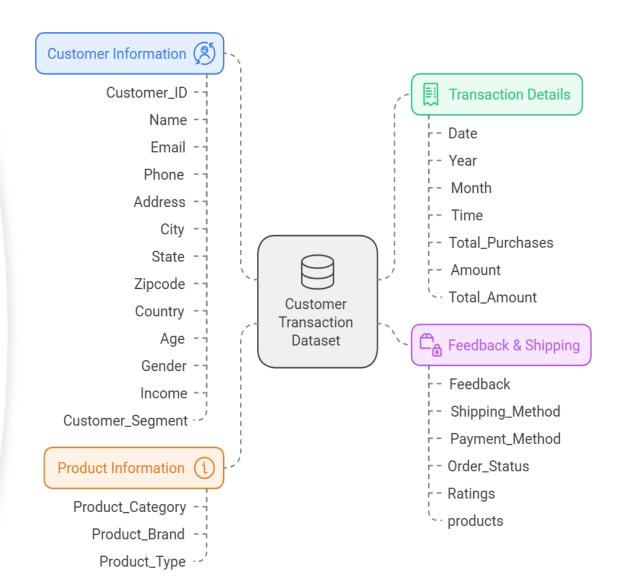


KNOW YOUR DATA

Dataset Insights

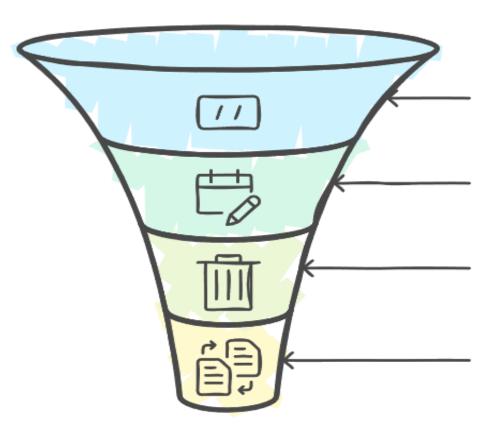
DATASET OVERVIEW





Data Cleaning and Transformation Process

Raw Dataset



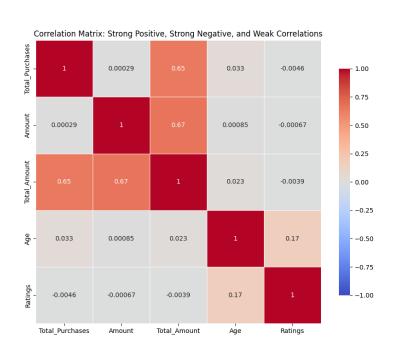
Cleaned and Transformed Dataset Handle Missing Values

Convert Data Types

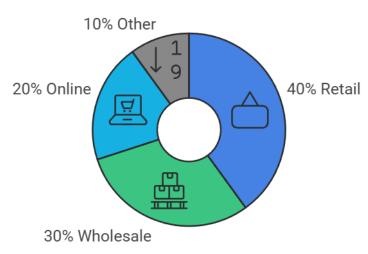
Remove Unnecessary Columns

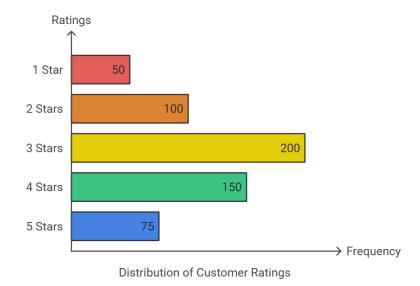
Encode and Scale Data (Optional)

Dataset Insights Visualization

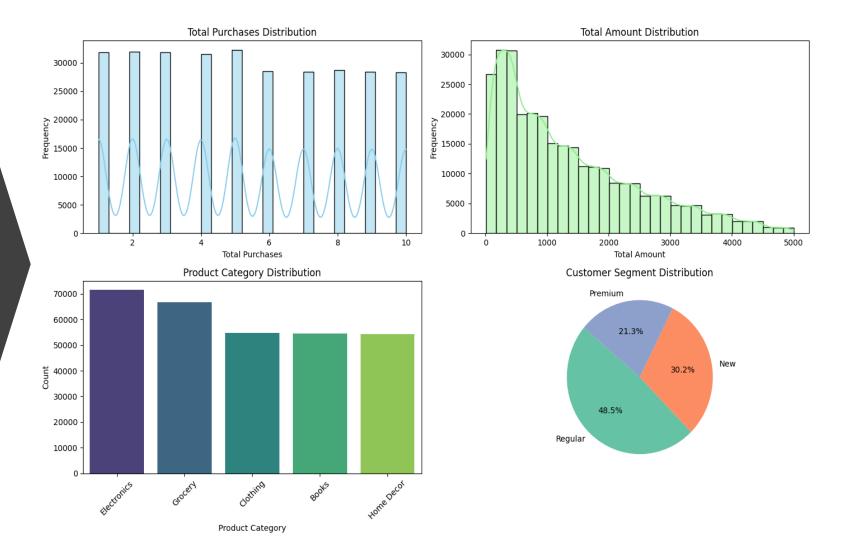


Distribution of Customer Segments





Key Distributions In The Data



TechRetail Sales Analytics Dashboard

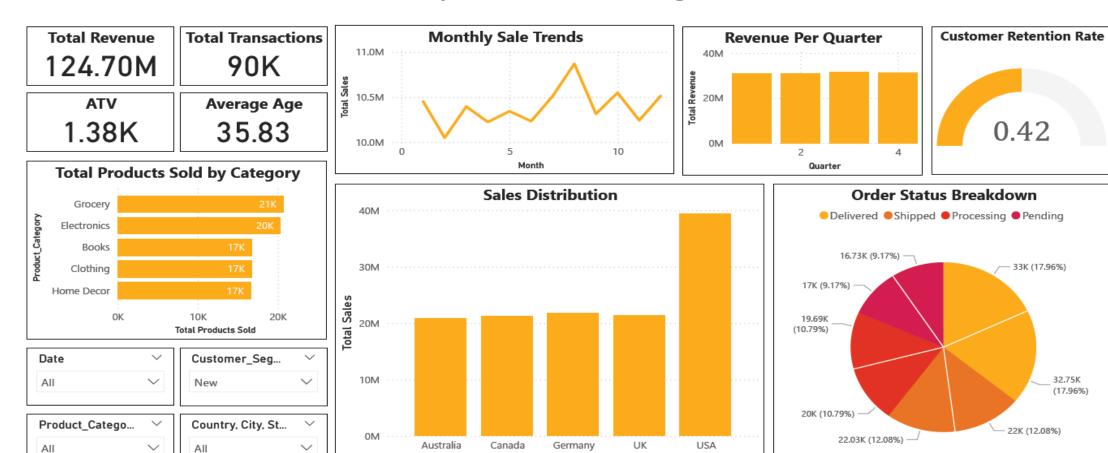
TechRetail Sales Analysis

Key Metrics for Business Insights

Country

32.75K

(17.96%)



THANK YOU