EXCEL DASHBOARDS AND POWER BI REPORTS

project work done in partial fulfillment of DATA ANALYST INTERNSHIP WITH VIGOR COUNCIL

Submitted by: SWEETY

Designation: Data analyst intern





SUMMARY

During my data analyst internship with Vigor Council, I had the opportunity to create impactful dashboards using both Excel and Power BI. Here are the key highlights of my experience:

Excel Dashboards:

Leveraged Excel's powerful features to design interactive dashboards.

Created dynamic charts, pivot tables, and slicers to visualize data trends.

Developed KPI dashboards for tracking performance metrics.

Collaborated with stakeholders to ensure the dashboards met their specific needs.

Power BI Reports:

Designed visually appealing reports using Power BI. Connected to various data sources, transformed data, and built data models. Developed

interactive visualizations, including bar charts, line graphs, and maps. Implemented drill-through functionality for deeper insights.



INSIGHTS AND IMPACT:

Analyzed data to identify patterns, anomalies, and actionable insights.

Presented findings to the team, enabling data-driven decision-making.

Contributed to improving business processes and optimizing performance.

Overall, my internship at Vigor Council provided hands-on experience in data visualization, dashboard creation, and data-driven storytelling. I look forward to applying these skills in future roles.



SOME EXCEL DASHBAORDS

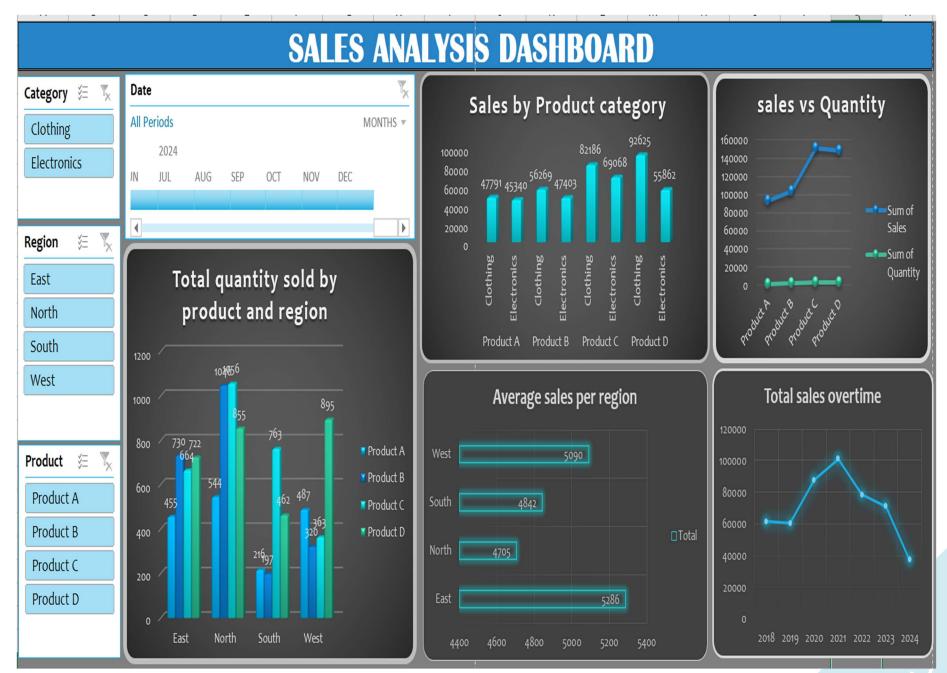
Project 02- Part 01

PROJECT SUMMARY: Simple SALES DATA ANALYSIS

The Sales dataset provides information on sales transactions, including date, product, category, region, sales amount, and quantity sold. Our goal is to analyze this data using pivot tables, charts, and dashboards to address specific business questions:

- 1. Total Sales by Product Category: Calculate total sales for each product category.
- 2. Average Sales by Region: Determine average sales amounts in each region.
- 3. Quantity Sold by Product and Region: Break down quantity sold for each product across regions.
- 4. Total Sales Over Time: Track sales trends over time (daily, weekly, or monthly).
- 5. Sales Performance of Each Product: Compare total sales and quantity sold for individual products.

These insights will guide data-driven decision-making within the organization.



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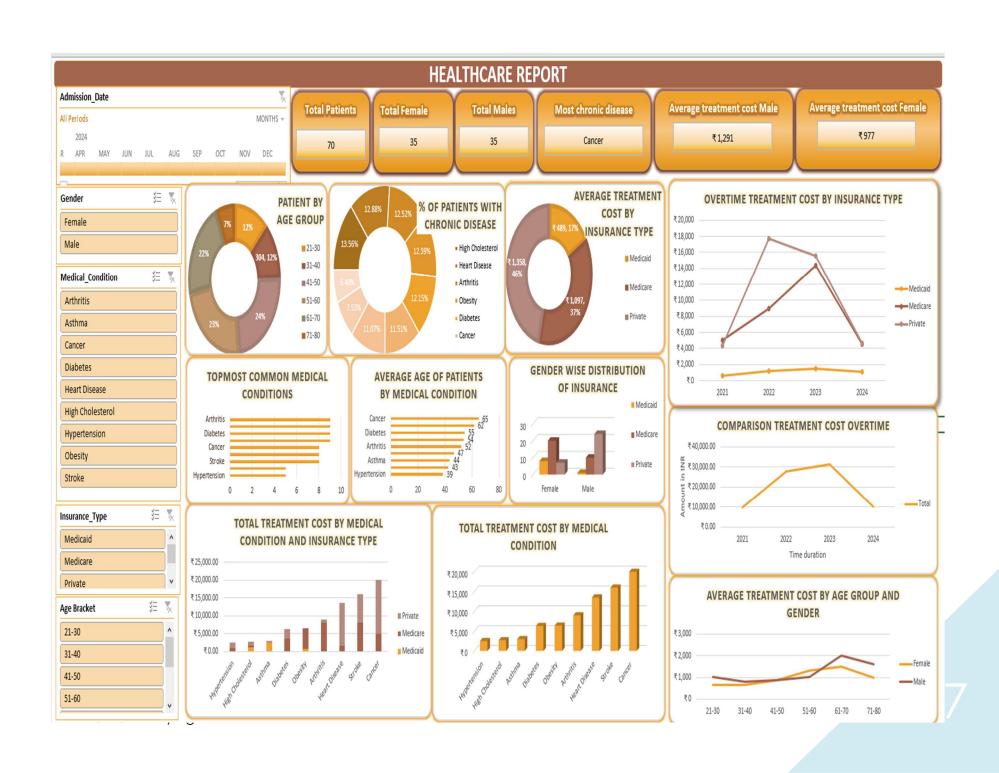
Project 02- part 2- Advanced Excel Dashboards

PROJECT REPORT: **HEALTHCARE DATA ANALYSIS USING MS EXCEL**

Objective: To analyze and visualize healthcare data to gain insights into treatment costs, patient demographics, and medical conditions.

Key Insights:

- Average Treatment Cost by Gender: Compare costs between male and female patients to identify gender-based differences.
- Distribution of Patients by Age Group: Visualize patient demographics by age brackets.
- Average Treatment Cost by Insurance Type: Analyze costs based on different insurance types.
- Most Common Medical Conditions: Identify the most frequent health issues among patients.



PROJECT REPORT: INSURANCE DATA ANALYSIS USING MS EXCEL

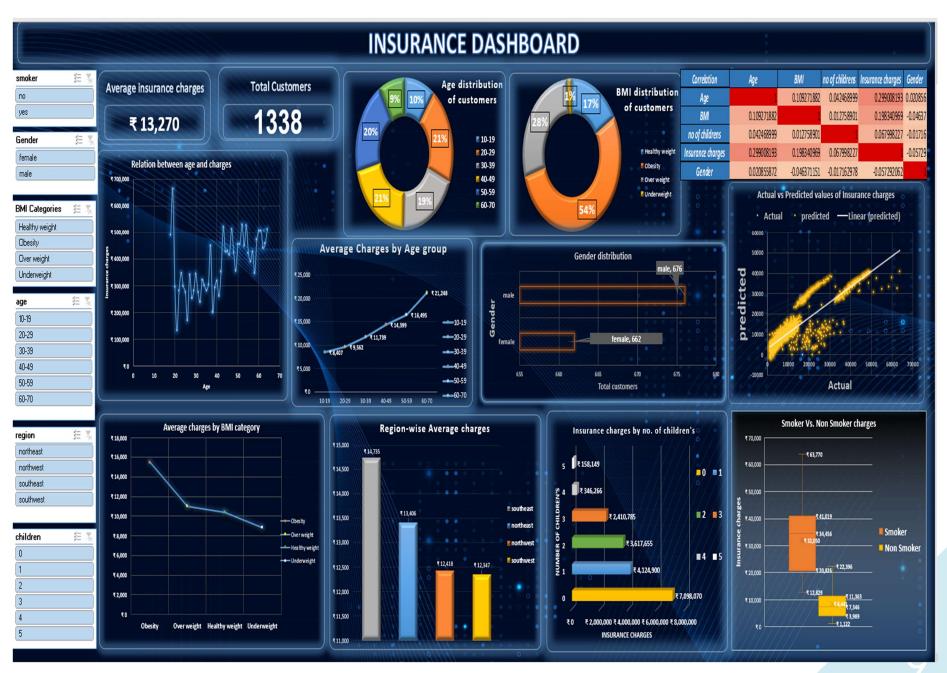
Project Overview: This project involves analyzing an insurance dataset using MS Excel to visualize various insights. The goal is to understand the factors influencing insurance charges.

Key Analyses:

- Age Distribution: Histogram to visualize age demographics.
- BMI Distribution: Histogram to display BMI distribution.
- Gender Distribution: Bar chart to represent gender distribution.
- Effect of Variables on Charges: Scatter plots and bar charts to analyze the relationship between age, BMI, number of children, smoker status, region, and insurance charges.

Advanced Analyses:

- Correlation Matrix: To see correlations between variables.
- Regression Analysis: To predict insurance charges based on multiple variables.



Project 2- part 3- Power BI reports

Part 3 include 2 reports

Report 1: Basic Insights

Account Balance Distribution by Account Type: Compare balances between savings and checking accounts 1.

Transaction Trend Over Time: Show transaction amount variations over time.

Top Customers by Transaction Amount: Identify customers with the highest transaction amounts2.

Transaction Type Distribution: Analyze the proportion of withdrawals and deposits.

Report 2: Key Performance Indicators (KPIs)

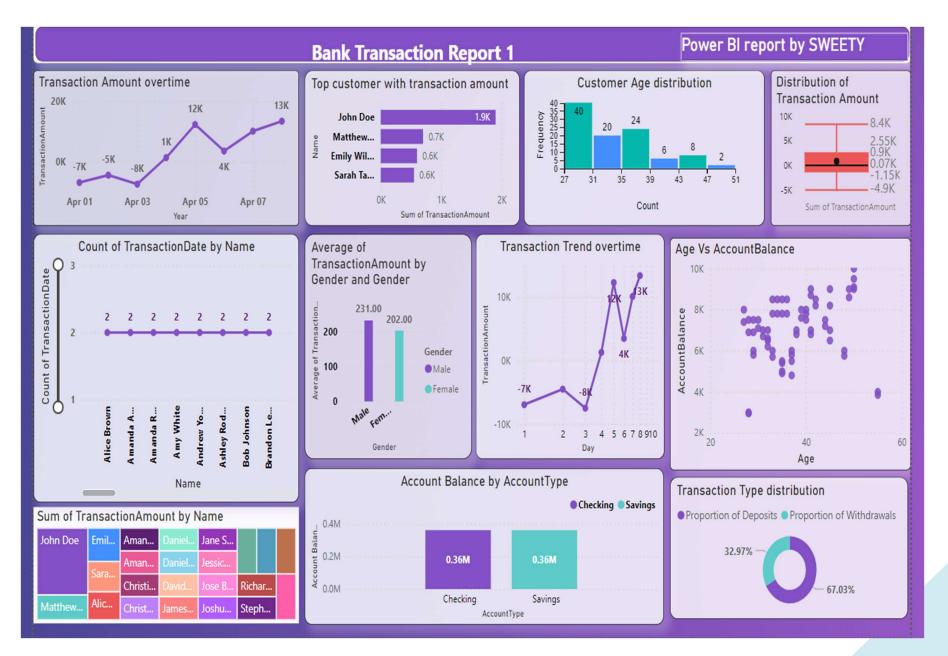
Average Account Balance: Overview of financial stability.

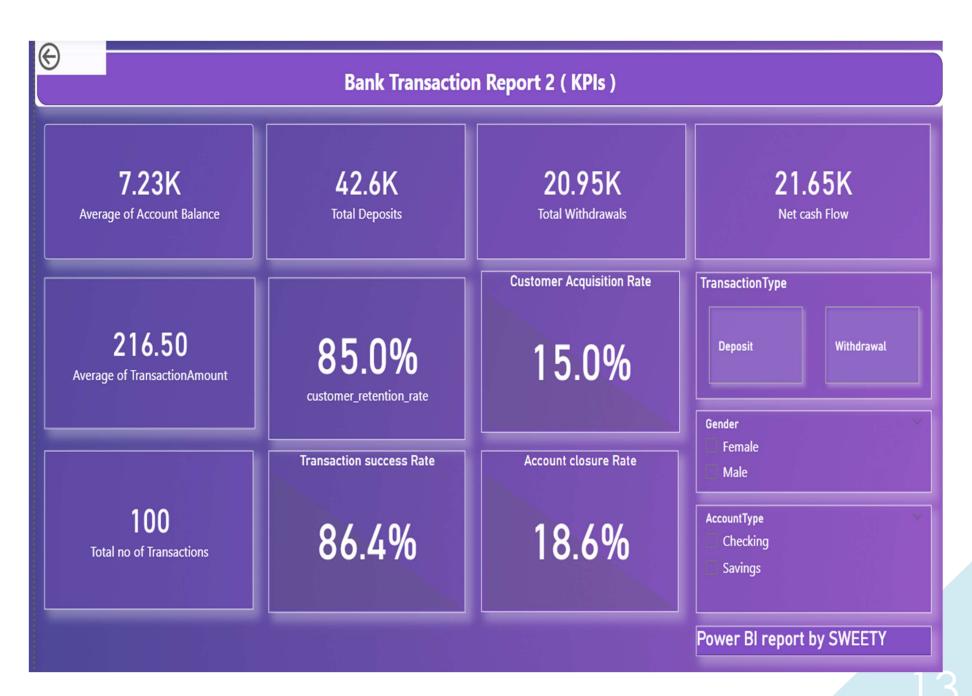
Total Deposits and Withdrawals: Sum of all deposits and withdrawals34.

Net Cash Flow: Total deposits minus total withdrawals.

Customer Acquisition and Retention Rates: Measure growth potential and customer loyalty.

These reports provide comprehensive insights into customer transactions, account balances, demographics, and key performance metrics.





Conclusion and Acknowledgments

Key Takeaways

In this project, we explored data using Excel and Power BI, uncovering valuable insights. Our findings contribute to informed decision-making and process optimization.

Acknowledgment

I extend my heartfelt gratitude to the following individuals and organizations:

Dr. B.P Sharma: Thank you for your guidance, feedback, and support throughout this journey.

Connect with Me

If you found this work valuable, feel free to follow me on LinkedIn or GitHub:

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