
Healthcare Analytics Portfolio

Visualizing Patient Insights with Tableau

Created by:

Vikashini P

Project Overview

This portfolio presents a healthcare analytics project created using Tableau. The aim of this project is to analyze patient demographics, medical conditions, admission types , and billing trends. The dashboards provide valuable insights that can help hospitals improve decision-making , optimize resources, and enhance patient care.

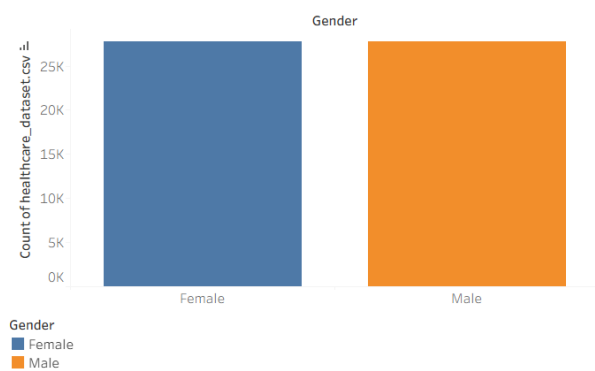
Tools and Techniques Used:

- Tableau Desktop
- Data Visualization & Analytics
- Dashboard Design & Storytelling
- Healthcare Dataset Exploration

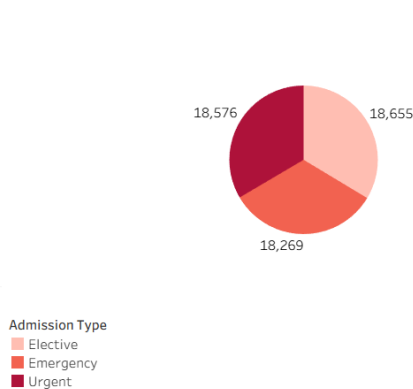
Dashboard 1: Healthcare Patient Overview

Healthcare Patient Overview Dashboard

Gender-wise Patient Count- Bar Chart

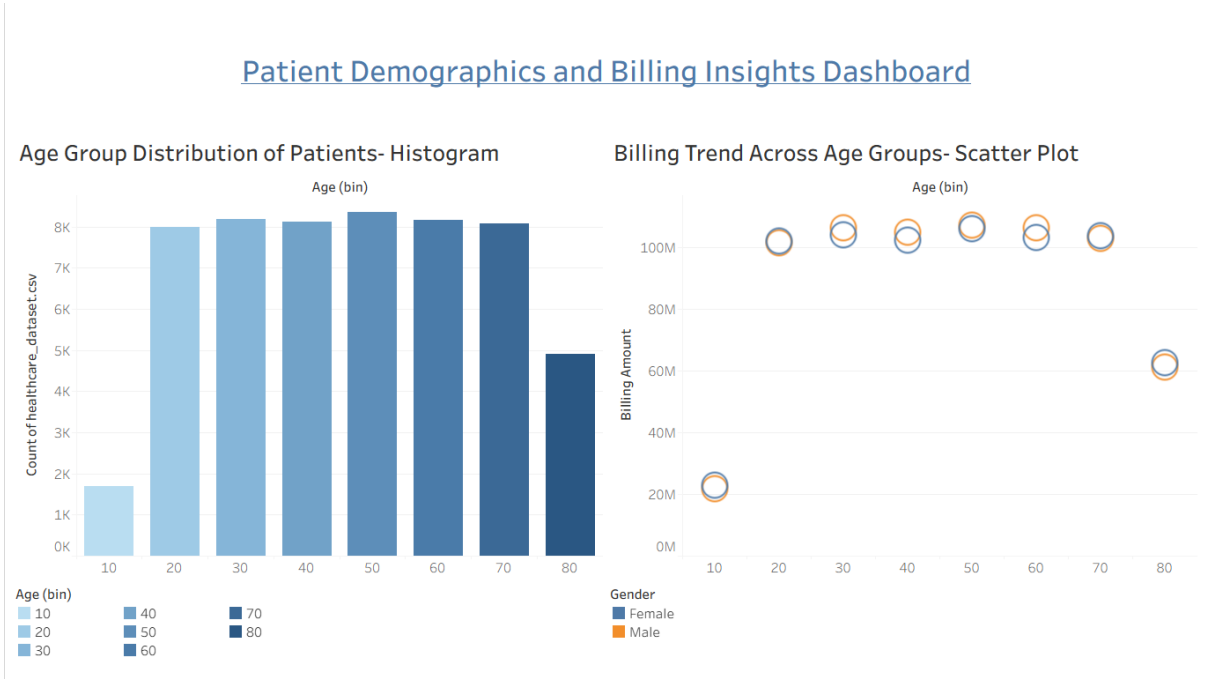


Distribution of Admission Types-Pie Chart



This dashboard provides a high-level overview of patient gender distribution and admission types. It helps identify the percentage of emergency vs. scheduled hospital visits, supporting resource and staff planning.

Dashboard 2: Patient Demographics & Billing Insights

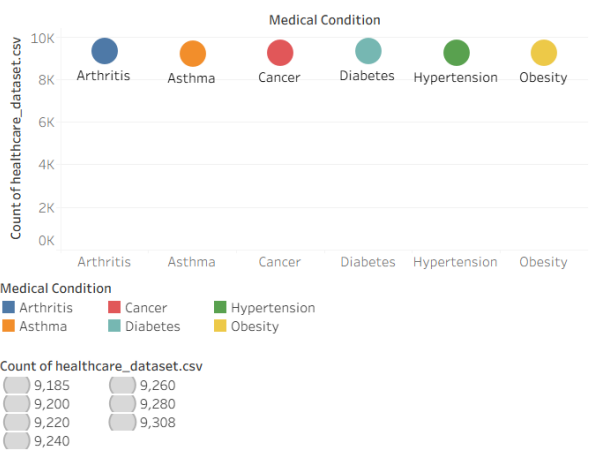


This dashboard highlights patient distribution across age groups and billing trends. It reveals that middle-aged and senior patients contribute to higher hospital visits and increased billing costs, helping optimize healthcare service planning for different age segments.

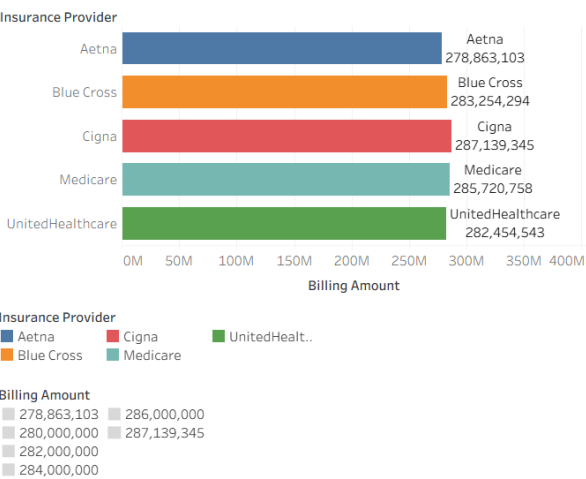
Dashboard 3: Medical Condition & Insurance Billing Insights

Medical Condition and Insurance Billing Insights Dashboard

Distributuion of Patients by Medical Condition- Packed Bubbles



Billing Amount by Insurance Provider- Tree Map

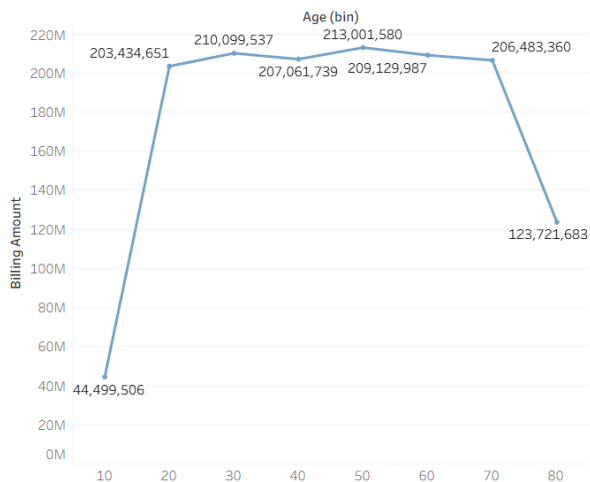


This dashboard focuses on patients based on medical conditions and insurance providers. The bubble chart highlights the most common diseases such as diabetes and hypertension. The billing chart shows which insurance providers cover higher-cost treatments, helping hospitals in financial planning and negotiations.

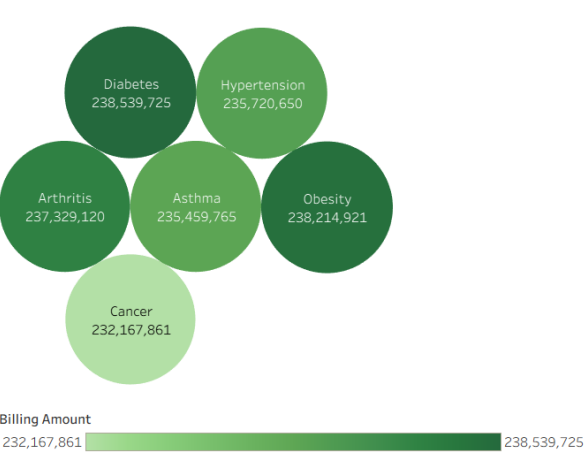
Dashboard 4: Billing Insights by Age and Medical Condition

Billing Insights by Age and Medical Condition

Average Billing Amount by Age-Line Chart



Billing Amount by Medical Condition- Bubble Chart



This dashboard analyzes billing patterns by age groups and medical conditions. The line chart shows a rise in billing with increasing age. The bubble chart highlights the cost variation between diseases, helping hospitals budget effectively and support financial decision-making.

Conclusion

The dashboards provide clear insights into patient demographics, medical conditions, admission trends, and hospital billing expenses. The analysis helps identify the most common diseases, high-cost age groups, and insurance provider billing patterns. These insights enable better resource allocation, financial planning, and improved healthcare service delivery.

Skills and Tools Used

- Tableau Desktop
- Dashboard Design & Data Visualization
- Analytical Thinking & Insight Interpretation
- Healthcare Data Exploration
- Microsoft Word(Documentation)

Thank you for reviewing my portfolio.