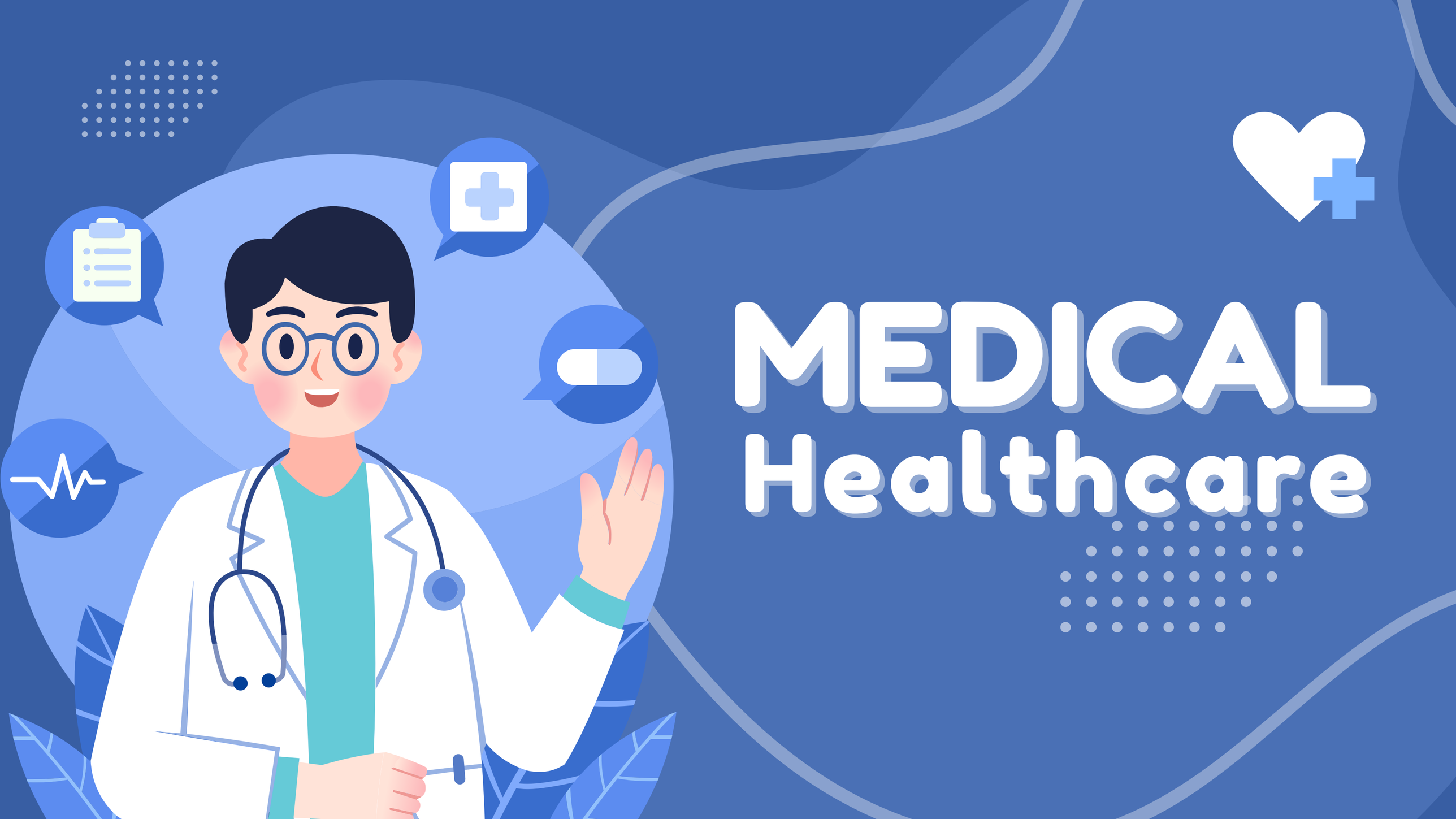

MEDICAL
Healthcare

Introduction

Medical healthcare plays a vital role in improving the quality of life by providing timely diagnosis, treatment, and prevention of diseases. It encompasses hospitals, clinics, and medical professionals working together to deliver patient-centered care.

In today’s data-driven world, leveraging medical data helps enhance decision-making, streamline hospital operations, and improve patient outcomes. This project focuses on analyzing healthcare data to uncover trends, monitor key metrics, and support informed clinical and administrative decisions.

Objective

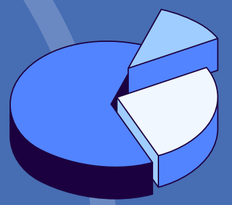
The primary objective of medical healthcare is to promote, maintain, and restore the health and well-being of individuals and communities. It aims to prevent diseases, provide timely diagnosis and treatment, and improve the overall quality of life.

What is Data ?

Data is a collection of facts, figures, or information that can be measured, observed, or recorded. It can come in many forms, such as numbers, words, images, or symbols.

What are Charts

Charts are visual representations of data that help us understand patterns, comparisons, and trends easily.
There are many types of charts, each showing different things:



Why Charts are Important

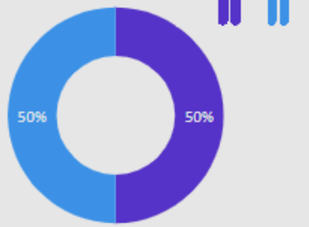
- Make large data sets easier to understand.
- Highlight key trends, outliers, or patterns.
- Save time and reduce confusion.
- Help with better decisions in business, healthcare, education, etc.

HEALTHCARE DASHBOARD

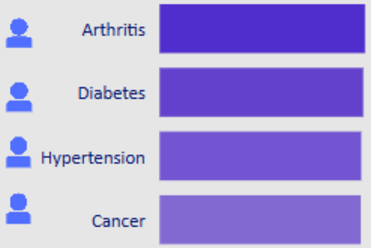
Doctor: All | Hospital: All | Medical Condition: All | Test Results: All | Age: All | Blood Type: All

40.24K
Total Patients

Patients by Gender

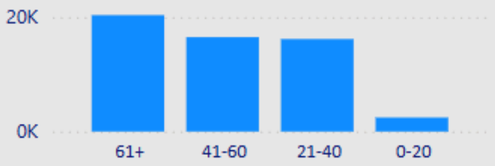


Most Common Conditions

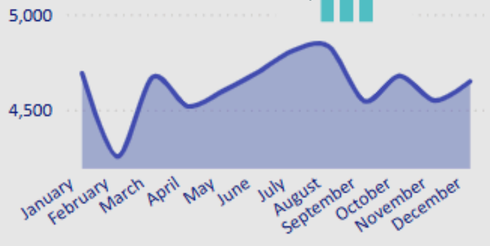


Billing by Condition

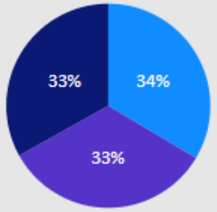
Patients by Age Group



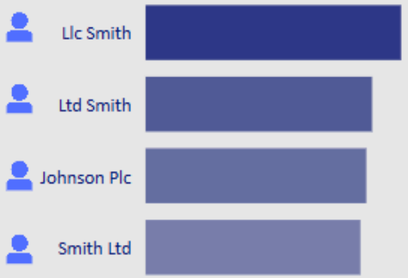
Admissions Over Time



Test Result Distribution



Top 4 Hospitals by Patient Count



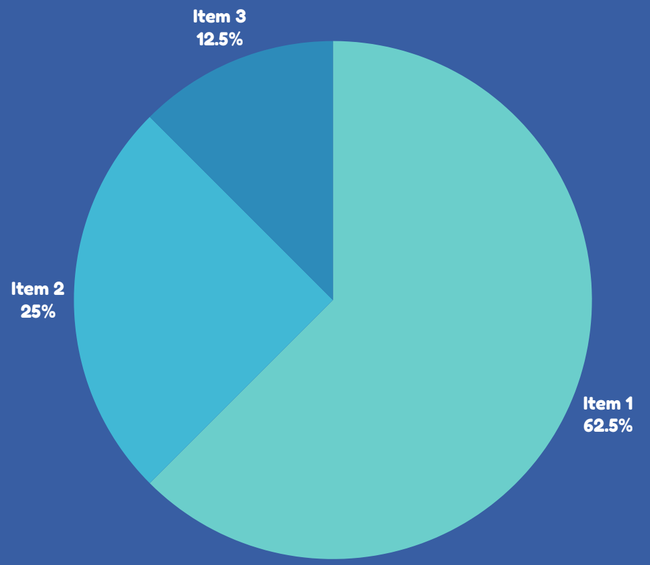
Readmissions

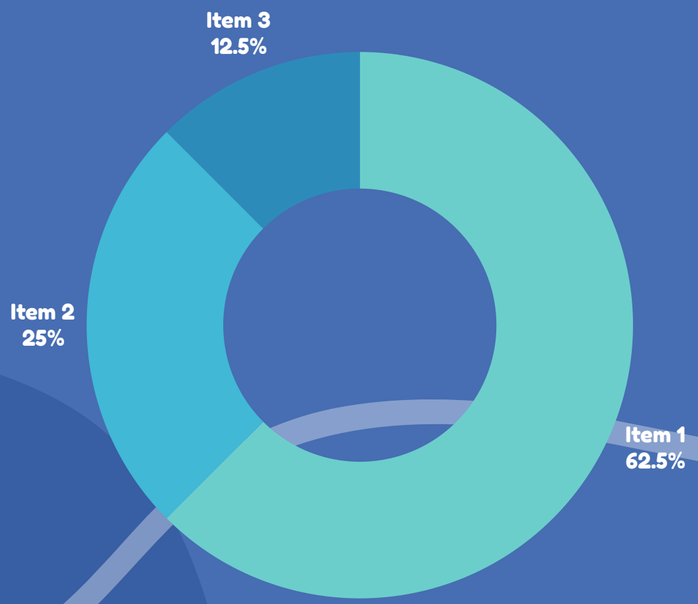
Avg Stay Duration

Charts Used in Dashboard

1.Pie Chart

A circular chart divided into slices, where each slice represents a part of the whole.





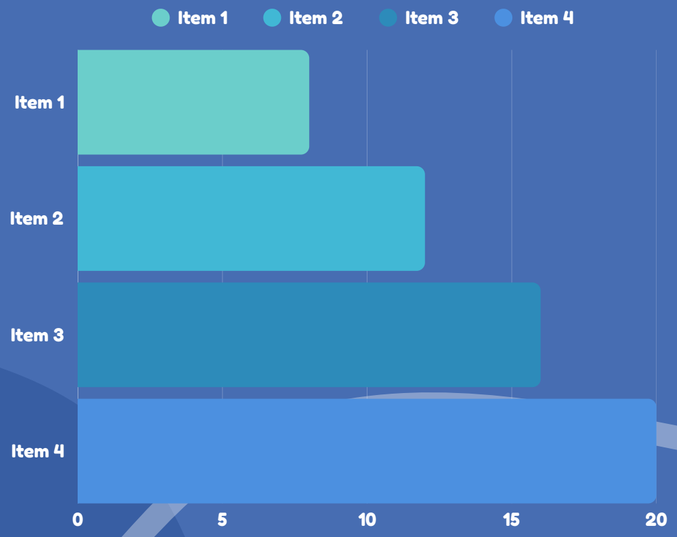
2.Donut Chart

A variation of the pie chart, but with a hole in the center. It serves the same purpose but looks cleaner and more modern.

Charts Used in Dashboard

3.Bar Chart

A chart that uses horizontal bars to compare values across different categories. The longer the bar, the higher the value.



4.Column Chart

Similar to a bar chart, but the bars are vertical. Used to compare values like billing amount or age group count.

Charts Used in Dashboard

5.Area Chart

Like a line chart, but with the area below the line filled in. It shows the volume of data over time.

6.Gauge Chart

Looks like a speedometer. Shows how much of a goal or threshold has been achieved, in percentage or value.

Conclusion

Healthcare is the foundation of a strong and thriving society. It ensures the physical and mental well-being of individuals through timely diagnosis, effective treatment, and continuous care. With growing populations and medical advancements, the need for efficient, data-driven, and patient-focused healthcare systems is more important than ever.

By combining medical expertise with technology and data insights, healthcare can become more accessible, responsive, and impactful — ultimately improving lives and shaping a healthier future for all.

THANK YOU