HOSPITAL PATIENT ANALYSIS

AIM

The aim of the Hospital Patient Analysis project on Power BI is to develop a dynamic dashboard that analyzes patient demographics, treatment trends, clinical outcomes, resource allocation, and cost-effectiveness to improve decision-making and enhance the quality of care provided within the healthcare facility.

ANALYSIS

1. **Monitoring Patient Waiting Lists:** The dashboard aims to provide real-time monitoring of patient waiting lists for different specialties within a healthcare organization. This helps in identifying bottlenecks, tracking patient flow, and optimizing appointment scheduling to reduce waiting times.

2. **Analyzing Historical Trends:** By incorporating historical data analysis in the dashboard, the project aims to identify trends, patterns, and insights from past patient waiting list data. This analysis can help in forecasting future patient loads, understanding seasonal variations, and improving resource allocation.

3. **Specialty-Level Analysis:** The dashboard provides a breakdown of patient waiting lists by different medical specialties. This allows healthcare administrators and staff to analyze waiting times, demand, and utilization patterns specific to each specialty and make informed decisions to optimize service delivery.

4. **Age Profile Analysis:** The project includes age profile analysis within the dashboard, enabling users to understand the distribution of waiting list patients across different age groups. This analysis can help in identifying age-related trends, healthcare needs of different age cohorts, and resource planning based on demographic factors.

5. **User-Friendly Interactivity:** One of the goals of the project is to create a user-friendly and interactive dashboard that enables stakeholders to explore data, gain insights, and make data-driven decisions. Features like filters, drill-down capabilities, interactive visuals, and bookmarks enhance user interactivity and navigation within the dashboard.

FEATURE OF THE PROJECT

- **Filters and Slicers:** Users can interact with the data by utilizing filters and slicers to narrow down the information they want to view. For example, users can filter by specialty, age group, or time period to focus on specific data points.

- **Drill-down and Drill-up:** Users can drill down into the data at different levels of granularity to gain deeper insights. For example, users can start at the overall view and then drill down to see specialty-level details.

- **Interactive Visualizations:** Visualizations such as bar charts, line charts, and tables are interactive, allowing users to click on data points to get more details or cross-filter other visuals in real-time.

- **Hover-over Details:** Tooltips provide additional context and details when users hover over data points in the dashboard, enhancing the user experience and understanding of the data.
- **Bookmarks:** Bookmarks are used to save specific views or states of the dashboard for quick access later. Users can easily switch between different bookmarked views with a simple click.
- **Navigation Pane:** A navigation pane is included to provide a structured way for users to explore different sections or pages within the dashboard. Users can easily navigate between different reports or views.
- **Multi-page Dashboard:** The dashboard is organized into multiple pages or sections, each focusing on different aspects of the data analysis. This helps users navigate through different perspectives and insights efficiently.