🎯 Project Title:

Healthcare Data Analysis: Patterns in Patient Admissions

📄 Objective:

To analyse a healthcare dataset consisting of **55,500** patient admission records and extract actionable insights into:

- Common medical conditions
- Hospital admission types
- Preferred doctors and hospitals
- Insurance coverage patterns
- Patient demographics and stay durations

🧠 Target Audience:

- Hospital administrators
- Health insurance analysts
- Public health researchers
- Data Analyst portfolio reviewers

📊 DATASET OVERVIEW

- **Rows**: 55,500
- **Columns**: 15
- **Missing Values**: None ✅
- **Key Columns**:
  - Age, Gender, Medical Condition
  - Date of Admission, Discharge Date, Admission Type
  - Doctor, Hospital, Insurance Provider
- **Sample Features**:
  - Patient journeys from admission to discharge
  - Treatment details and diagnoses

🧪 EXPLORATORY DATA ANALYSIS DONE (From Notebook)

The EDA notebook includes:

📌 1. Descriptive Analysis

- Age and gender distributions
- Top 10 most frequent medical conditions

📌 2. Time-Based Trends

- Admissions by month
- Stay duration analysis (from Date of Admission to Discharge Date)

📌 3. Hospital & Doctor Analysis

- Patient count per doctor
- Top doctors and their billing stats

📌 4. Billing & Insurance Insights

- Preferred insurances opted by patients
- Comparative analysis of insurance providing companies.

📌 5. Visualizations

- Line chart
- Pie Chart
- Bar charts for categorical fields