

## **Healthcare Data Analytics Dashboard using Power BI**

### **Objective**

The objective of this project is to analyze healthcare data using Power BI to derive insights related to patient demographics, health conditions, hospital visits, and treatment costs. The dashboard supports data-driven healthcare decisions.

### **Dataset Description**

The dataset contains 500 patient records with demographic details, health indicators, lifestyle factors, hospital visits, and treatment costs. Each record represents one patient.

### **Tools & Technologies**

Power BI Desktop, Power Query, DAX, Interactive Visualizations.

### **Data Cleaning & Transformation**

Data was cleaned using Power Query by correcting data types, handling missing values, removing duplicates, standardizing text fields, and creating age group categories.

### **Dashboard Design**

The dashboard includes KPI cards, age and gender distribution charts, BMI vs treatment cost analysis, hospital visit trends, smoker and diabetes analysis, and interactive slicers.

### **Key Insights**

1. Higher hospital visits are observed in older age groups.
2. Diabetic patients incur higher treatment costs compared to non-diabetic patients.
3. Higher BMI is associated with increased treatment costs.
4. Smokers tend to have higher healthcare utilization and costs.

### **Conclusion**

This project demonstrates how Power BI can be used to convert healthcare data into actionable insights through effective data modeling, DAX calculations, and interactive dashboards.