# Pharmaceutical Sales & Prescription Performance Dashboard

## **Project Overview**

This project is an Excel-based interactive dashboard designed to track pharmaceutical sales, prescription behavior, and regional performance.

The goal is to provide actionable insights that help in:

- Identifying top-performing drugs
- Detecting underperforming regions
- Aligning sales with prescription demand
- Understanding patient demographics and doctor specialization trends

#### **Objectives**

- Track total sales and revenue growth trends
- Monitor prescriptions by specialization and demographics
- Compare sales performance across regions and channels
- Provide data-driven insights for pharmaceutical decision-making

#### **K** Features

- Data Cleaning: Removed duplicates, corrected formats, standardized drug names
- Pivot Tables: Summarized sales, prescriptions, and demographic insights
- Charts:
- Line → Monthly Sales Trend
- Bar → Top 5 Drugs by Revenue
- Pie → Sales Channel Distribution
- Stacked Bar → Prescriptions by Age & Gender
- Interactive Dashboard:
- Slicers (Region, Drug Name)
- Timeline (Date Filters)
- Consistent formatting for professional look

#### **III** KPIs Displayed

- Total Sales & Revenue Growth
- Top 5 Drugs by Sales
- Sales by Region

- Prescription Count by Doctor Specialization
- Patient Demographics (Age & Gender)
- Sales by Channel

## Steps to Reproduce

- 1. Define Business Questions (e.g., Which drugs generate the most revenue? Which region leads in sales?)
- 2. Collect / Simulate Data → Use pharma\_data.xlsx or a similar dataset
- 3. Data Cleaning in Excel
- 4. Create Pivot Tables for analysis
- 5. Build Charts for visualization
- 6. Develop Excel Dashboard with interactivity (slicers, timelines)
- 7. Analyze Insights for business strategy

#### Project Structure

Pharmaceutical-Dashboard/

- |--- pharma\_data.xlsx # Dataset (simulated/real)
- ├── Pharmaceutical Project.xlsx # Final Excel Dashboard
- ├--- Pharma\_Readme.pdf # Project Documentation

## Insights Gained

- Highlight which drugs are high revenue but low prescriptions (promotion opportunity)
- Detect regions with low sales but high prescription demand (distribution gap)
- Compare sales channels (hospital, pharmacy, online) to identify the most profitable ones

#### Future Scope

- Expand to Power BI / Tableau for advanced visualization
- Automate data updates with Excel macros / Python scripts
- Add forecasting models for drug sales trends