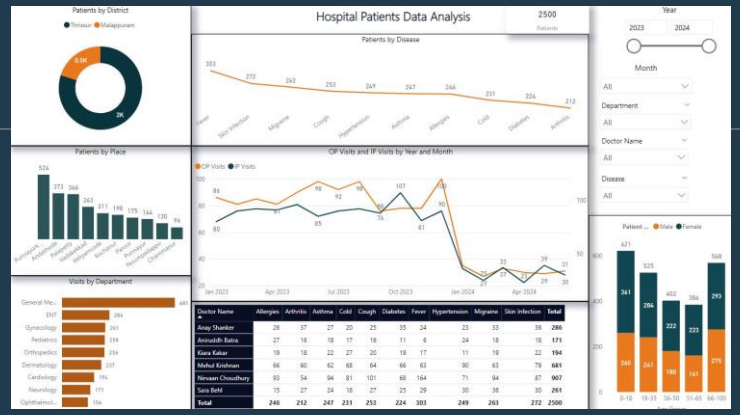
TRANSFORMING DATA INTO ACTIONABLE INSIGHTS

Patient Record Data Analysis Dashboard

PROJECT OVERVIEW:

THIS PROJECT INVOLVED DEVELOPING AN INTERACTIVE DASHBOARD TO ANALYZE PATIENT DATA FROM A HEALTHCARE FACILITY. THE DASHBOARD WAS DESIGNED USING PYTHON, POWER BI, DAX, AND EXCEL, PROVIDING BOTH DESKTOP AND MOBILE VIEWS FOR EASE OF ACCESS AND NAVIGATION.



[Project Dashboard Link]

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MBA | Data Analyst

Key Features:

- **Patients by Diseases:**
  - Categorized patients based on different diseases, allowing healthcare professionals to track the prevalence of various conditions across the population.
- **Patients by District & Place:**
  - Analyzed patient demographics by district and place, providing insights into geographical patterns and enabling targeted healthcare strategies.
- **OP and IP Visits by Month & Year:**
  - Visualized outpatient (OP) and inpatient (IP) visits over time, categorized by month and year, to identify trends in healthcare utilization and seasonal variations in patient inflow.
- **Visits by Departments:**
  - Monitored patient visits across different departments, helping management assess department workloads and optimize resource allocation.
- **Patient Demographics (Male/Female):**
  - Segmented patients based on gender, providing gender-based insights into healthcare needs and treatment outcomes.
- **Doctor Analysis by Patient Visits:**
  - Analyzed the number of patients visited by each doctor, categorized by diseases, enabling performance evaluation and resource planning for the healthcare team.

Tools and Technologies Used:

Python: Used for data cleaning and preprocessing, employing libraries like Pandas and Matplotlib for initial analysis and visualization.

Power BI: Created interactive visualizations and dashboards, making it easy for users to explore patient data.

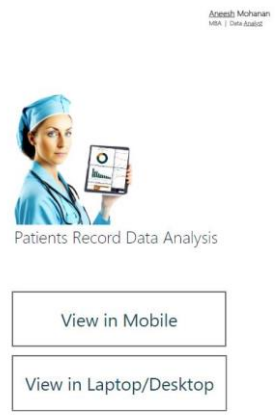
DAX: Implemented dynamic calculations and measures in Power BI to provide real-time insights and actionable data.

Excel: Assisted with initial data organization, ensuring smooth integration into the Power BI dashboard.

Interactive Dashboard Views:

Desktop View: Provides a comprehensive overview of all analysis sections, allowing for deep dives into specific metrics such as disease categories, geographic trends, and department visits.

Mobile View: A streamlined version of the dashboard optimized for mobile devices, ensuring quick access to key data on-the-go.



Project:

Patient Record Data Analysis Dashboard [Project Dashboard Link]

Portfolio:

Check out my portfolio for more projects like this: [Portfolio Link]

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CONCLUSION:

THIS PROJECT DEMONSTRATES MY ABILITY TO HANDLE LARGE DATASETS, CONDUCT IN-DEPTH ANALYSES, AND CREATE DYNAMIC, USER-FRIENDLY DASHBOARDS USING A COMBINATION OF PYTHON, POWER BI, DAX, AND EXCEL. THE DASHBOARD NOT ONLY PROVIDES CRITICAL INSIGHTS FOR HEALTHCARE MANAGEMENT BUT ALSO ENABLES DATA-DRIVEN DECISION-MAKING AT MULTIPLE LEVELS.