Executive Summary

Project Title : Hospital Emergency Room Analysis Dashboard

Tool Used : Microsoft Excel

Data Timeline : April 2023 – October 2024

Project Type : Guided project (dashboard guided by Satish Dhawale's YouTube tutorial, presentation created independently)

Project Overview

Built using Excel, this project visualizes ER performance metrics to help hospital stakeholders monitor patient flow, manage delays, and improve service quality. The dashboard transforms raw data into actionable insights, enhancing daily decision-making in busy emergency departments.

Dataset & Structure

Contains 9,216 patient records from April 2023 to October 2024. Key fields include demographics, admission timing, department referrals, wait times, satisfaction scores, and admission status. Enhanced using Power Pivot for age grouping, attend status classification, and calendar-based filtering.

Key Insights

- 9,216 ER visits recorded during this period
- Average wait time: 35.26 minutes
- Satisfaction score average: 4.99 / 10
- 49.96% admitted, 50.04% not admitted
- Most patients aged 20–39; 59% experienced delays
- Top referrals: General Practice, Orthopedics

Recommendations

- Allocate more staff during high-demand periods
- Let patients view real-time wait time updates to reduce anxiety
- Gather discharge-time feedback to fix pain points early
- Prioritize quicker triage for younger age groups

Skills Applied

Excel dashboarding, Power Pivot, trend analysis, dynamic filtering, visual storytelling, and presentation design using Canva.

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