

Healthcare Provider Dashboard – Power BI Portfolio Project

Background & Overview

This project explores healthcare billing data across 2024 and 2025 using Power BI. The primary objective is to offer actionable insights to healthcare providers, administrators, and finance departments. The dashboard evaluates patient race, procedure types, departmental billing, diagnosis, and service type breakdowns.

Key Areas Analyzed

- Procedure Billing Trends (X-Ray, CT Scan, MRI, etc.)
- Diagnosis Distribution (Asthma, Hypertension, etc.)
- Department Performance (Cardiology, Orthopedics, etc.)
- Race and Demographic Billing
- Year-over-Year Cost Breakdown

Insights

- **Billing Growth:** From £1M (2024) to £3M (2025).
- **Top Procedure:** CT Scan overtakes X-Ray in 2025.
- **Top Department:** Cardiology leads in 2025.
- **Cost Shifts:** Average treatment and insurance costs fluctuate.
- **Location Analysis:** London & Birmingham show highest billing.

Recommendations

- Reallocate resources to top-performing departments.
- Explore geographic and racial billing equity.
- Reduce emergency-based Asthma/Hyp. visits via preventive care.
- Investigate insurance cost fluctuations by procedure.

Team Goals

- **Administrative:** Improve care quality and accessibility.
- **Finance:** Pinpoint revenue sources and cost drains.
- **Operations:** Align department staffing with demand surges.