

Data Analysis Project - Coursera

Executive Summary

This project analyzes operational data from a multi-specialty hospital to improve efficiency.

Introduction

We provide context about challenges in healthcare operations and the importance of analysis.

Data Collection Methodology

We used sample data to demonstrate analytical steps.

Exploratory Data Analysis

Data was processed using Pandas with visualizations via Matplotlib and Plotly.

Predictive Analysis

A basic linear regression model was used to estimate waiting times.

Interactive Map

A Folium map was included to display geographic distribution of data.

Dash and SQL

Demonstrated use of Dash dashboards and SQL queries to extract insights.

Conclusion

Key findings summarized with practical improvement recommendations.

Creative Additions

Visual design enhancements and extras were added for clarity and impact.