Healthcare Predictive Analytics Project

Project Plan

The project will be completed in **4 weeks**, divided into the following phases:

Week 1: Data Collection and Preprocessing

- Gather relevant healthcare datasets.

- Perform exploratory data analysis (EDA).

- Handle missing data and standardize the dataset.

Week 2: Data Analysis and Visualization

- Identify relationships between health metrics and patient outcomes.

- Create visualizations such as heatmaps and trend lines.

- Generate insights based on statistical analysis.

Week 3: Model Development and Optimization

- Select suitable machine learning algorithms.

- Train and evaluate models using appropriate metrics.

- Optimize model parameters for better accuracy.

Week 4: Deployment and Finalization

- Deploy the predictive model as a web application.

- Implement model monitoring and performance tracking.

- Prepare final documentation and presentation.

Team Members and Responsibilities

Mazen Mohamed – System Integration and Testing
Jomana Mohamed – Data Analysis and Visualization
Basmala Hussien – Data Collection and Preprocessing
Ebrahim BenBella – Model Development and Optimization
Ziad Tamer Ibrahim – Deployment and Final Presentation

This structured plan ensures the successful development and deployment of a functional healthcare predictive analytics system within the given timeline.