1. Project Proposal

Overview

The Healthcare Predictive Analytics Project aims to develop a machine learning-based predictive model to enhance healthcare decision-making. The model will analyze patient data, identify health trends, and predict potential risks, thereby improving patient outcomes and optimizing resource management.

Objectives

• Develop a data-driven predictive model for patient risk assessment.

• Identify trends in health metrics to support early intervention and prevention strategies.

• Assist healthcare professionals in making informed decisions through real-time insights. • Improve operational efficiency in healthcare settings through predictive analytics.

Scope

• Data collection, preprocessing, exploratory analysis, and visualization.

• Machine learning model development, training, evaluation, and optimization.

• Deployment of the predictive model as a web-based API or application.

• Implementation of MLOps strategies for model monitoring and continuous improvement. • Final documentation and presentation to stakeholders, highlighting the model’s impact and potential future enhancements.