

# Predictive Pulse: Harnessing Machine Learning for Blood Pressure Analysis

## Student Name:

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## Mentor:

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## Duration:

30 Days

## Technology Used:

- Python
- Flask
- Machine Learning
- HTML/CSS
- Pandas, NumPy
- Matplotlib / Seaborn

## Project Description:

The objective of this project is to build a predictive system using machine learning to analyze and forecast blood pressure trends using health-related data. The system collects real-time data such as heart rate, age, and BMI and predicts blood pressure status.

## Modules Covered:

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1. Data Collection
2. Data Preprocessing
3. Model Training and Evaluation
4. Flask Web App Integration
5. Frontend Webpage

## Outcome:

A working web application that allows users to input personal health information and receive a predicted blood pressure result.