Heart Disease Prediction Using Machine Learning

Project Presentation

By [Your Name]

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Introduction

- Heart disease is a leading cause of death globally.
- Goal: Predict the risk of heart disease using machine learning to help in early **diagnosis.**

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Dataset Overview

- Cleveland Heart Disease Dataset
- 303 Patients, 13 Features:
  - **Age, Sex**
  - **Blood Pressure**
  - Cholesterol, Chest Pain Type
  - Max Heart Rate, etc.

Ag	BP	Chol
96	55	39
49	74	71
51	44	32
72	57	28
55	40	27
77	55	26

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Key Features

Age | Cholesterol | Random (CP) (CR) | Max Heart Rate

Predicting: 1 = Heart Disease, 0 = No Disease

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Key Features

Age | Cholesterol | Max Heart Rate | (Thalach)

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Machine Learning Model

- Tried **Different Algorithms**:
  - Logistic Regression
  - **Random Forest (Best)**
  - Support Vector Machine

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Results & Evaluataion

- Accuracy: 87%
- Precision: 85%
- Recall: 88%
- Confusion Matrix

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Conclusion

- Early Prediction Helps Save Lives
- Model Achieved High Accuracy
- Future: Improve & Expand the Model

Thank You!

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