

Heart Disease Dataset Introduction

Dataset Source

This dataset was obtained from an open-source heart disease dataset commonly found on platforms like Kaggle. It contains patient records with attributes related to their cardiovascular health.

Dataset Overview

The dataset includes 918 records and 12 features, covering patient demographics, symptoms, and test results. It is used to predict the likelihood of heart disease.

Features Description

- Age: Age of the patient in years
- Sex: Gender of the patient (M/F)
- ChestPainType: Type of chest pain (ATA, NAP, ASY, TA)
- RestingBP: Resting blood pressure (in mm Hg)
- Cholesterol: Serum cholesterol in mg/dl
- FastingBS: Fasting blood sugar > 120 mg/dl (1 = true; 0 = false)
- RestingECG: Results of resting electrocardiogram (Normal, ST, LVH)
- MaxHR: Maximum heart rate achieved
- ExerciseAngina: Exercise-induced angina (Y/N)
- Oldpeak: ST depression induced by exercise
- ST_Slope: Slope of the peak exercise ST segment (Up, Flat, Down)
- HeartDisease: Target variable (1 = has heart disease, 0 = no disease)

Why We Chose This Dataset

Heart disease is one of the leading causes of death worldwide. Predicting heart disease early can save lives.

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This dataset provides a good balance of categorical and numerical features, making it ideal for machine learning classification.

Goal

To build a machine learning model that can predict whether a patient has heart disease based on input features, and deploy this in a user-friendly interface.