

Project 3 Proposal

Predicting Heart Disease

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Domain

UCI Machine Learning Repository provides databases, domain theories, and data generators used by the machine learning community. I will be using their Heart Disease Dataset, specifically the dataset created by the Cleveland Clinic Foundation. It provides 13 features and a target variable referring to the presence of heart disease in the patient. Target is an integer value from 0 (no heart disease presence) to 4.

MVP

The analysis will predict the presence of heart disease presence in a patient.

Heart Disease Data

	Variable	Type	Description	Used for Model
1.	age	int	age in years	Y
2.	gender	int	1=male, 0=female	Y
3.	cpain	int	chest pain: 1=typical angina, 2=atypical angina, 3=non-anginal pain, 4=asymptomatic	Y
4.	restbp	int	resting blood pressure	Y
5.	chol	int	serum cholesterol in mg/dl	Y
6.	bsugar	int	fasting blood sugar>120 mg/dl 1=true, 0=false	Y
7.	restecg	int	resting electrocardiographic results	Y
8.	maxhr	int	maximum heart rate achieved	Y
9.	exercisecp	int	exercise induced chest pain	Y
10.	oldpeak	float	ST depression induced by exercise	Y
11.	slope	int	the slope of the peak exercise ST segment	Y
12.	ca	int	number of major vessels colored by flourosopy	Y
13.	thal	int	3=normal, 6=fixed defect, 7=reversable defect	Y
14.	target	int	diagnosis of heart disease: 0=no presence to 4	Y