Heart Disease Prediction

A Machine learning (Supervised)

Heart Disease Prediction project.

PROJECT BY : ROHAN GAIKWAD

ABOUT PROJECT

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WHAT HEART DISEASE AND TYPES?

Heart Disease :

Heart Disease happens when the flow of blood that brings oxygen to a part of your heart muscle suddenly becomes blocked. Your heart can't get enough oxygen. If blood flow is not restored quickly, the heart muscle will begin to die.

TYPES : coronary heart disease , stroke ,
peripheral arterial disease , aortic disease.

ABOUT DATASET

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Dataset

The sample Dataset summarizes the usage behavior of about 9000 active credit card holders during the last 6 months. The file is at a customer level with 18 behavioral variables.

Variables of Dataset

- slope_of_peak_exercise_st_segment
- thal
- resting_blood_pressure
- chest_pain_type
- num_major_vessels
- fasting_blood_sugar_gt_120_mg_per_dl
- resting_ekg_results
- serum_cholesterol_mg_per_dl
- oldpeak_eq_st_depression
- sex
- age
- max_heart_rate_achieved
- exercise_induced_angina

STEPS AND PROCESS

PROJECT PROCESS

1

Research and business understanding

The first thing you have to do before you solve a problem is to define exactly what it is. You need to be able to translate data questions into something actionable.

2

Data pre-processing

Data preprocessing can refer to manipulation or dropping of data before it is used in order to ensure or enhance performance, and is an important step in the data mining process.

3

Exploratory Data analysis

Exploratory data analysis is an approach of analyzing data sets to summarize their main characteristics, often using statistical graphics and other data visualization methods.

4

Model Building

Model building process where different machine learning algorithms are used to make different machine learning models for various applications.

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