Ahmedabad University

CSE523 - Machine Learning

Section: 1

Heart Disease Prediction - Report

Submitted to Prof. Mehul Raval

Group name: Bias_Variane_Dillema

Enrollment Number	Name
AU1940155	Shubham Patel
AU1940100	Shrey Patel
AU1940207	Keyur Nagar

❖ Things we have done:

1. We did Exploratory Data Analysis (EDA) for all the columns of our dataset.
2. We found that females are more likely to have heart problems than males.
3. We found that chest pain of '0', i.e. the ones with typical angina are much less likely to have heart problems.
4. We found that people with restecg '1' and '0' are much more likely to have a heart disease than with restecg '2'.
5. We found that people with exang = 1 i.e. exercise induced angina are much less likely to have heart problems.
6. We found that slope '2' causes heart pain much more than slope '0' and '1'
7. We found that people with ca = 4 have more probability of heart disease than others.

❖ Things to be done:

- We will try to find correlation (if any) of the 13 parameters with the output parameter. We will take appropriate actions such that the correlation doesn't affect our model.
- We will try other algorithms (Logistic Regression, SVM, etc.) for our dataset and select the model with high accuracy.
- In the end, we will try to deploy our model on the front-end website where the user can enter their values for the 13 parameters, and the model will detect the disease and show relevant results. This will ensure our model is widely used.