CSE523 - Machine Learning

Section: 1

Heart Disease Prediction - Report

Submitted to Prof. Mehul Raval

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❖ Things we have done:

➔ We have used the Logistic regression for our dataset and try to find the accuracy of our model.

➔ We get the accuracy of 85% using a logistic regression algorithm.

➔ We did the Anova test for reducing the features of the current dataset.

➔ We found that the 'fbs' feature is very weakly correlated with our target variable.

➔ We make the conclusion that the logistic regression classifier is best fit compared to KNN algorithm as the accuracy of logistic regression(85%) much higher than the KNN classifier(71%).

❖ Things to be done:

● We will try other classifier(SVM, Decision tree, Random forest, Neural networks 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.