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Subject: Machine Learning

Class: BE Computer 1

Assignment 2:

Problem Statement:

Search a Medical related dataset

1. Download the dataset
2. Perform pre-processing on the dataset
3. Use this dataset to build a Naive Bayes Classifier
4. Use this dataset to build a Decision Tree Classifier
5. Compare the results and comment

Tool used:

Jupyter Notebook(Python).

Dataset:

The dataset consists of the various factors regarding the heart health such as cholesterol levels and threshold capacities etc. The data is classified into failed heart or healthy heart

Implementation:

Below attached is the converted notebook file with output.

Conclusion:

Test data set performance of both the models are:

1. Naive Bayes: 83.0%
2. Decision Tree: 75.0%