VISUALIZING AND PREDICTING HEART DISEASE WITH AN INTERACTIVE DASHBOARD

PROBLEM STATEMENT

Heart disease (HD) is a major cause of mortality in modern society. Medical diagnosis is an extremely important but complicated task that should be performed accurately and efficiently. Cardiovascular disease is difficult to detect due to several risk factors, including high blood pressure, cholesterol, and an abnormal pulse rate. Based on the analytics we can analyze which patients are most likely to suffer from heart disease in the near future and based on the patient details we will take decisions to cure them. We analyzing the various machine learning algorithms and finding the best to predict the presence or absence of heart disease. The target we will be exploring is binary classification which is 0 to show the absence of heart disease and 1 to show the presence of heart disease.

IDEATION

- Measures the strength of the significant features that contribute to heart disease prediction using selectKbest, Relief feature selection algorithms.
- Improvement of accuracy of prediction by choosing the best Machine Learning Algorithm.
- Improves the data security of sensitive data.