DMWA Lab

Heart Disease Prediction System

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Problem Statement

The health care industries collect huge amounts of data that contain some hidden information, which is useful for making effective decisions. For providing appropriate results and making effective decisions on data, some advanced data mining techniques are used. An effective heart disease prediction system (EHDPS) has to be developed using Data Mining Techniques (KNN, Decision Tree, Random Forest, and etc.) for predicting the risk level of heart disease. The system will use 15 medical parameters such as age, sex, blood pressure, cholesterol, and obesity for prediction. The EHDPS predicts the likelihood of patients getting heart disease. It enables significant knowledge, e.g., relationships between medical factors related to heart disease and patterns, to be established.

Technology to be Used

1. Python and Python Libraries (Sklearn, Matplotlib, Numpy, Pandas, and Seaborn)
2. Google Colab/ Jupyter Notebook (Anaconda Environment)
3. Dataset -: https://www.kaggle.com/ronitf/heart-disease-uci

References

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