

Heart Disease Prediction using Machine Learning Algorithms

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Abstract: Nowadays, machine learning algorithms are vastly used all over the world. In the healthcare industry, machine learning is widely used for predicting disease at an early stage. It saves a lot of people's lives worldwide by predicting their disease at an early stage. Even then, every year, thousands of people are affected and died from heart disease. If machines can predict the early stage of the disease, then, this prediction should reduce the death risk of heart disease. The heart is a significant limb of the human body, and heart disease is the major reason for death in the present world.

Day by day the cases of heart diseases are increasing at a rapid rate and it's very Important and concerning to predict any such diseases beforehand. This diagnosis is a difficult task i.e. it should be performed precisely and efficiently. The research paper mainly focuses on which patient is more likely to have a heart disease based on various medical attributes. We prepared a heart disease prediction system to predict whether the patient is likely to be diagnosed with a heart disease or not using the medical history of the patient. We used different algorithms of machine learning such as logistic regression and KNN to predict and classify the patient with heart disease. A quite Helpful approach was used to regulate how the model can be used to improve the accuracy of prediction of Heart Attack in any individual. The strength of the proposed model was quiet satisfying and was able to predict evidence of having a heart disease in a particular individual by using KNN and Logistic Regression which showed a good accuracy in comparison to the previously used classifier such as naive bayes etc. So a quiet significant amount of pressure has been lift off by using the given model in finding the probability of the classifier to correctly and accurately identify the heart disease. The Given heart disease prediction system enhances medical care and reduces the cost. This project gives us significant knowledge that can help us predict the patients with heart disease It is implemented on the .pynb format.

Keywords: machine learning

