

Hybrid Technique for Predicting Heart Disease

Abstract

Heart disease is one of the biggest causes of morbidity and mortality among the population of the world. It is a deadly disease that a large population of people around the world suffers with. When considering death rates and large number of people who suffers from heart disease, it is revealed how important early diagnosis of heart disease is. Traditional way of diagnosis is not sufficient for such an illness. Prediction of cardiovascular disease is regarded as one of the most important subjects in the section of clinical data analysis. The amount of data in the healthcare industry is huge. Developing a medical diagnosis system based on machine learning for prediction of heart disease provides more accurate diagnosis than the traditional way.

Machine learning (ML) has been shown to be effective in assisting i.e., making decisions and predictions from the large quantity of data produced by the healthcare industry. We have also seen ML techniques being used in recent developments in different areas of the Internet of Things (IoT). Various studies give only a glimpse into predicting heart disease with ML techniques. In this paper, we propose a novel method that aims at finding significant features by applying machine learning techniques resulting in improving the accuracy in the prediction of cardiovascular disease. The prediction model is introduced with different combinations of features and several known classification techniques. We produce an enhanced performance level with high accuracy to predict heart disease with the hybrid random forest with a linear model (HRFLM).

Project ID : 11

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