

ABSTRACT

Heart disease is a leading cause of death worldwide. However, it remains difficult for clinicians to predict heart disease as it is a complex and costly task. Hence, we proposed a clinical support system for predicting heart disease to help clinicians with diagnostic and make better decisions. Machine learning techniques as used to accurately predict the outcomes based on the given data and business requirement. In the field of predictive analytics we can maximize the accuracy and outcomes by choosing various tools and techniques available in the market.

The proposed techniques used in this project include as follows:

* Supervised Learning (Classification)

1. Decision Tree
2. Random Forest
3. Support Vector Machine

* Unsupervised Learning (Classification)

1. Principal Component Analysis (PCA)
2. K-Means