

## Development of an Intelligent System for Heart Disease Prediction

Data mining is a technique that is performed on large databases for extracting hidden patterns by using combinational strategy from statistical analysis, machine learning and database technology. Data mining holds great potential for the healthcare industry to enable health systems to systematically use data and analytics to identify inefficiencies and best practices that improve care and reduce costs. Heart disease is one of the most common diseases. The identification of the possibility of heart disease in a person is complicated task for medical practitioners because it requires years of experience and intense medical tests to be conducted. It needs a lot of care by the doctor to get diagnosed. This work is to develop a system to detect whether the patient is suffering from heart disease or not.

In this work, the data mining algorithms like Decision Tree, Naïve Bayes, SVM calculations and Neural Network are addressed and used to develop a prediction system in order to analyse and predict the possibility of heart disease at maximum accuracy when classification of normal and abnormal person is carried out. The Kaggle Heart Disease UCI dataset can be used for this purpose.

