Abstract

The data mining can be defined as discovery of relationships in large databases automatically and in some cases it is used for predicting relationships based on the results discovered. Data mining plays a vital role in various applications such as business organizations, e-commerce, health care industry, scientific and engineering. In the health care industry, the data mining is mainly used for predicting the diseases from the datasets. Various data mining techniques are available for predicting diseases namely Classification, Clustering, Association rules and Regressions. This paper analyzes the classification tree techniques in data mining. The aim of this paper is to investigate the experimental results of the performance of different classification
techniques for a heart disease dataset. The classification tree algorithms used and tested in this work are Decision Stump, Random Forest, and LMT Tree algorithm. Comparative analysis is done by using Waikato Environment for Knowledge Analysis or in short, WEKA. It is open source software which consists of a collection of machine learning algorithms for data mining tasks.

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