

Abstract Details

Title: Enhanced Heart Disease Prediction Using Decision Tree

Author: Madhavi Kumari and Amit Verma

Abstract: Healthcare information systems containing huge number of medical records are ideal targets for data mining. Many works have applied data mining techniques to pathological data or medical profiles for prediction of specific diseases. Data mining is to extract hidden rules and relationships between diseases from a real world Healthcare Information System. Clinical decisions are often made based on doctors' intuition and experience rather than on the knowledge rich data hidden in the database. This practice leads to unwanted biases, errors and excessive medical costs which affects the quality of service provided to patients. This suggestion is promising as data modeling and analysis tools, e.g., data mining, have the potential to generate a knowledge-rich environment which can help to significantly improve the quality of clinical decisions. This paper proposes an algorithm that uses error back propagation along with cart. The proposed algorithm increases the classification accuracy by 7%.

Keywords: Data Mining, Heart Disease, Classification technique, CART.