A Food Prescription and Recognition for Patients using Decision Tree Algorithm

Kodeeswari.K[1], Sivananaitha Perumal.S[2]

PG Scholar, Department of IT, Dr.Sivanthi Aditanar College of Engineering, Tiruchendur, India[1]
Professor, Department of IT, Dr.Sivanthi Aditanar College of Engineering, Tiruchendur, India[2]

Abstract: The tendency for Data mining application in Healthcare Organizations is great because Healthcare sector is rich with information and Data mining is becoming a necessity. Healthcare organizations produce and collect large volumes of information on daily basis. Raw data in healthcare organizations are voluminous and heterogeneous. Computer vision-based food prescription with image could be used to estimate a meals and their calories content for diabetic patients. This study proposes a methodology for automatic food prescription, a visual dataset 50 food images was created and organized. The food and their calories are prescribed for the patients using decision tree algorithm. The collected data items are organized in Decision tree structure which can be used to predict the food for the particular disease. The food and calorie content will be prescribed based on the parameters such as age, gender and their severity. The system achieved classification accuracy of the order of 98%, thus proving the feasibility of the proposed approach is very challenging.

Keywords*: Disease, BMI, Conceptual Clustering, Intersect method, Prediction.