APPLICATION OF DATA MINING TECHNIQUES

PAPER REVIEW

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Application of Data Mining Techniques for Medical Data Classification: A Review

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Abstract. This paper investigates the existing practices and prospects of medical data classification based on data mining techniques. It highlights major advanced classification approaches used to enhance classification accuracy. Past research has provided literature on medical data classification using data mining techniques. From extensive literature analysis, it is found that data mining techniques are very effective for the task of classification. This paper analysed comparatively the current advancement in the classification of medical data. The findings of the study showed that the existing classification of medical data can be improved further. Nonetheless, there should be more research to ascertain and lessen the ambiguities for classification to gain better precision.

1 Introduction

Data Mining has been used in a variety of applications such as marketing, customer relationship management, engineering, and medicine analysis, expert prediction, web mining and mobile computing [1]. Of late, data mining has been applied successfully in healthcare fraud and detecting abuse cases [2]. 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 [3]. This suggestion is promising as data modeling and analysis tools, e.g., data

from data mining can influence cost, revenue, and operating efficiency while maintaining a high level of care. Healthcare organizations that perform data mining are better positioned to meet their long-term needs [5].

In recent years, computers and their peripherals have been made cheaper and more readily available and in line with the development of information technology, various kinds of advanced data mining techniques have hit the market. These new age data mining techniques embrace traditional and more recent sophisticated classification algorithms. Both classification techniques are for handling complex datasets such as multidimensionality, user inference and prior knowledge web data, spurious data points that cause

PAPER OVERVIEW

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RESEARCH OBJECTIVE

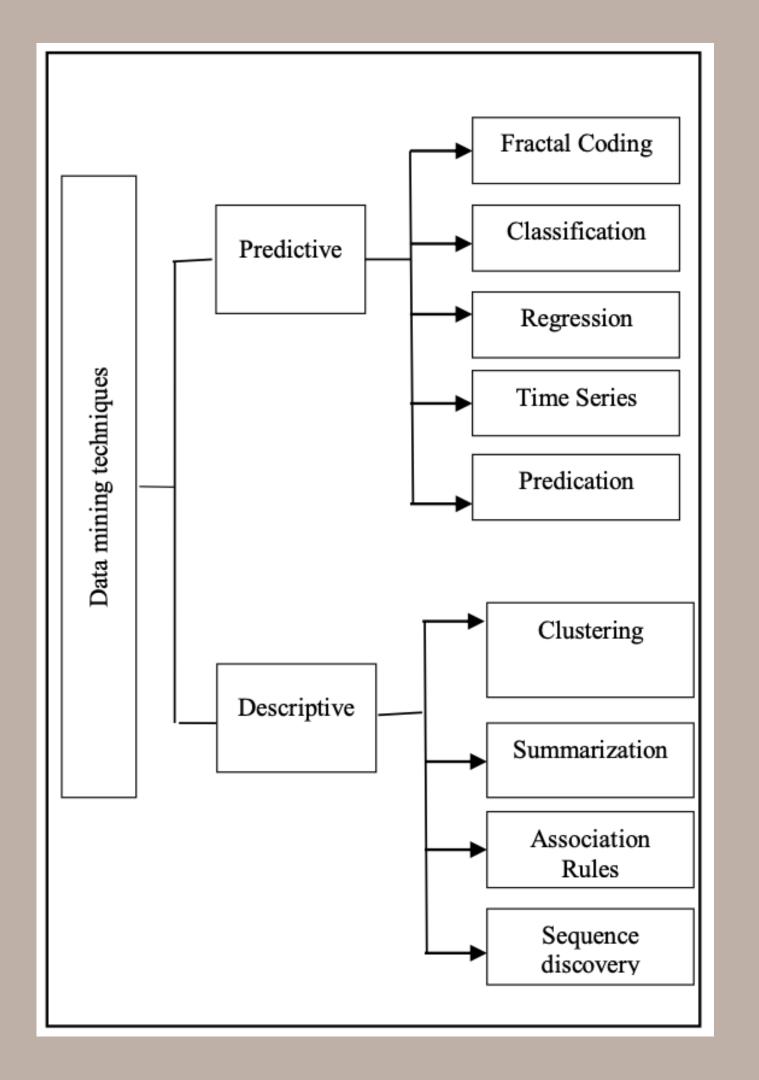
This paper investigates the existing practices and prospects of medical data classification based on data mining techniques. It highlights major advanced classification approaches used to enhance classification accuracy. Past research has provided literature on medical data classification using data mining techniques.

DATA COLLECTION

The data have been collected based on each medical center and also the organization related to this works.

METHODOLOGY

There are alot of steps that have been apply in this research. The method that this paper use, first they propose the problem that have already done but the objective is to improve the accuracy of classification.



THANK YOU!