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ANALYSIS OF DATA MINING METHODOLOGY IN MEDICAL DIAGNOSIS**K.INDHUMATHI****HEAD****DEPARTMENT OF COMPUTER SCIENCE
SRI AKILANDESWARI WOMEN'S COLLEGE
VANDAVASI****ABSTRACT**

The present study about the data mining methodology applied to the medical diagnosis no methodology is developed for all kind of medical diagnosis which gives higher performance in accuracy. No unique algorithm has been developed for different kind of medical diagnosis problem. Depending on the medical problem to be diagnosed, the researchers must choose the appropriate methodology in such a way to gain the higher performance in accuracy. Not all the algorithms gain the same accuracy: the appropriate algorithm is to be applied by comparing the performance of each. Still there are waste areas of medical science datasets are there to diagnose by applying the data mining methodology. It is a challenging area of the researchers to finding out an appropriate methodology for the specific problem. The aim of this paper is to study and analyze the various data mining methodologies used to diagnose the various medical related diseases, and to check the accuracy of the methodology.

KEYWORDS

Medical diagnosis, data mining technology.

1. INTRODUCTION

Data mining is the concept of extracting the knowledge from the available information. Different Methods used to mine various kinds of Data. Even number of methods is there in data mining the challenge is selecting a suitable method to mine the selected data. This paper analyses the different methods were applied in medical data mining and the results of the methods.

Most previous research on disease diagnosis uses statistical methods for modeling. Statistical methods, however, require assumptions and usually adopted to analyze linear data. They are thus less capable of dealing with massive and complicated nonlinear and dependent data [1, 2], such as the enormous data collected continuously through health examination and medical treatment [3]. Therefore, more effective approaches are needed to analyze massive and complicated data. For example, data mining techniques may provide a useful solution.

Over the past few decades, Data mining techniques, such as genetic algorithms, artificial neural networks, fuzzy sets, rough sets, and inductive logic programming, have been introduced for application to medical-related fields.

The analysis is conducted in different medical data sets like hepatitis, heart disease, dermatology disease, and diabetes. The analyses have shown that it is very difficult name a single data-mining algorithm to be the most suitable for the medical data. The results gained for the algorithms were very similar. However, the final evaluation of the outcomes allowed singling out the Naïve Bayes to be the best classifier for the given domain. The Multilayer Perception followed it and the C4.5.

2. COMPUTATIONAL INTELLIGENCE (CI)

Medical diagnoses are impossible to solve the particular problem effectively. The computational intelligence is very much important for smart solutions of imperfect domains. Most of the medical domain is not well define the decision tree methodology can be applied to analyze those dataset. With the computational intelligence we can easily automates the decision making with less assistance from experts.

3. PREDICTION OF BREAST CANCER

There are three methods are applied to predict the surveillance of breast cancer [12]. The two popular data mining algorithms Artificial Neural Networks and decision tree methods along with statistical method logistic regressions are applied. All the three methods develop the prediction model for the large database about 200000 samples. The performance of each model is compared. Among t three methods, the decision tree gives the accuracy of 89.2%. From the result of the paper [12], the decision tree methodology gives more accuracy and the method well suits for medical diagnosis.

4. LIVER DISEASE DIAGNOSIS

It is difficult to diagnose the liver disease in the initial stage. Early diagnosis of liver disease is more important. The two data mining methodology, Classification and Regression Tree (CART) and Case-based Reasoning (CBR) techniques were used. Each method is applied individually to raise the accuracy of liver disease diagnosis. Paper uses an intelligent model for the diagnosis of liver diseases, which integrates CART and CBR. The two methods are used for different purposes. The adaptive CART is to identify the patient suffer from liver disease, where as the CBR is use to identify the type of liver disease. In this CART gives the accuracy of 92.94% to identify the patients suffer from liver disease. The CBR gives the accuracy of 90% to identify the type of liver disease. The integration of CART and CBR techniques diagnose the liver diseases with considerable accuracy. The CART is helpful to diagnosis the liver diseases that is very helpful to diagnose the liver disease that is very helpful to the physician for treatment. In addition, the CBR gives the similar and dissimilar liver problems and it is a great assistance to reduce the diagnostic error and it help to improve the treatment.

Each methodology was implemented by using its own algorithms. The performance of each algorithm is to be checked to select the appropriate algorithm in such a way to maximize the performance of the result and gain more accuracy. When applying the different kind of algorithm for the same medical datasets the accuracy differs from one another. Researchers have been conducted to check the performance analysis of algorithms.

5. HEPATITIS AND HEART DISEASE ANALYSIS

The C4.5 algorithm has been use in hepatitis data sets and the decision tree is generated. The accuracy has been checked. It has less accuracy than when it applied in breast cancer dataset [14]. When the C4.5 algorithm is applied for the heart diseases, it also gains very less accuracy. The Naïve Bayes algorithm is applied for the same set of heart disease dataset it gives the accuracy better than the C4.5. In the same way the multilayer perception method has been applied for different kinds of medical datasets and the accuracy is analyzed and proved that it also gives us the less accuracy. In all the cases, the Naïve Bayes Classifier gives the higher accuracy than C4.5 and multilayer perception methods. Paper [14] concludes that the Naïve Bayes Classifier is the best methodology than the C4.5 and Multilayer perception.

Data of hepatitis are collected and training dataset is made [15]. Data mining methodologies such as classification, clustering, and regression are applied. In order to discover the classification rules, ant miner algorithm is used. The proposed method extracts the classified rules using fuzzy based ant miner algorithm. The training set is taken and the algorithm is applied initially for classifying the categorical attributes. For rule generation the heuristic functions are used. It also generates best rules for classification. Next, the optimized rules are obtained by performing rule pruning based on the quality functions. Using the test cases

the accuracy of the designed system is determined. The algorithm brings out the better quality of the classified rules. This project is designed in such a way to obtain the best rules with maximum accuracy. The proposed methodology predicts the hepatitis in the earlier stage and is helpful to the doctors [15].

6. DIAGNOSIS OF ALZHEIMER DISEASE

The classification methodology is used to diagnose the Alzheimer disease. In this paper [16], a new method for the automated diagnosis of diseases based on the improvement of random forests classification algorithm is proposed. More specially, the dynamic determination of the optimum number of base classifiers composing the random forests is addressed. This algorithm can be applied for eight biomedical datasets like breast cancer, diabetes and heart diseases and the test cases are proved. Paper [16] concludes classification methodology gains better accuracy for those eight biomedical datasets.

7. AIDS/HIV DATASET

The Association rule-mining algorithm has been proposed to analyze the HIV datasets. The algorithm mined interestingness and surprising rules. The rules revealed many interesting information about CD4 cell counts, RNA levels, drugs between treatment and various patients. The algorithm also supports missing an incomplete data. It also supports large volume of data.

8. DEDUCTING THE CANCER DISEASE

The Bayesian classifier is used to deduct the cancer disease [18]. Here the Bayesian multi resolution system is used to identify the cancer-affected region. The digitized images are decomposed and the Bayesian classifier is applied to check the resolution of the image in terms of low, intermediate and high. The algorithm classifies the image by applying different resolutions. The random forest is generated by combining the multiple decision tree classifiers.

9. CONCLUSION

After the detailed study about the data mining methodology applied to the medical diagnosis no methodology is developed for all kind of medical diagnosis which gives higher performance in accuracy. No unique algorithm has been developed for different kind of medical diagnosis problem. Depending on the medical problem to be diagnosed, the researchers must choose the appropriate methodology in such a way to gain the higher performance in accuracy. Not all the algorithms gain the same accuracy: the appropriate algorithm is to be applied by comparing the performance of each. Still there are waste areas of medical science datasets are there to diagnose by applying the data mining methodology. It is a challenging area of the researchers to finding out an appropriate methodology for the specific problem.

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With sincere regards

Thanking you profoundly

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Sd/-

Co-ordinator

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