



Association Classifier for Predictive Analysis in Health Care Mining (PREDICTIVE ANALYSIS USING ASSOCIATION CLASSIFIER)

Grijesh Kumar Patwa¹, piyush singh², Deepak Maurya³, Suryaprakash yadav⁴

Student, B.E. Information Technology, Shree L.R. Tiwari College of Engineering Mumbai, India

Sunil Yadav²

Assistant Professor, Information Technology, Shree L.R. Tiwari College of Engineering, Mumbai, India

Sunny Bhavar Sall³

I/C Principal, Sardar Vallabhbhai Patel Polytechnic, Mumbai, India

Abstract- Association classifier for predictive analysis is to develop a project which is used to analysis on the data of the patient's and on the basis of that data the prediction can be done. This is the new technique where we are integrating the two technique which were used earlier for data mining. Those two technique are association rule mining and classification rule mining by combining these two techniques we are developing a new classification Approach .Till now, the association rule mining are used for data mining of descriptive task, such as market basket analysis and the classification rule mining was used for predictive analysis technique that is used to discover a small set of rule in database That focus on accurate classifier. Now, this propose system will we use for survey purpose. We are going to collect the data of patients such as age, smoking habits, BMI, Hypertension, and the predictive analysis will be done on the basis of above data. By using association classification the accuracy of data will be higher than other techniques.

Keywords – Association Classifier; Php; CSS; Xampp, predictive analysis.

I. INTRODUCTION

It is a survey base project which gives an idea about why implementation of this project is important. It deals with the user experience of various users from multidisciplinary background that can utilize the application to analyses themselves and improve their performance. Here we are using the new immerging technology of PHP language and Tomcat Apache to make this project, because it is easily available and cost effective. This project basically implies with the heart patients. So here we are maintaining the records of all the heart patients and by analyzing the data we maintain a graph of particular disease.

II. TECHNOLOGY USED

1. Apache Tomcat:

Apache Tomcat is an open-source web server and servlet container developed by the Software Foundation (ASF). Tomcat implements several Java EE specifications including Java Servlet, Java Server Pages (JSP), Java EL, and Web Socket, and provides a "pure Java" HTTP web server environment for Java code to run in. Apache is developed and maintained by an open community of developers under the auspices of the Apache Software Foundation, released under the Apache License 2.0 license, and is open-source software.

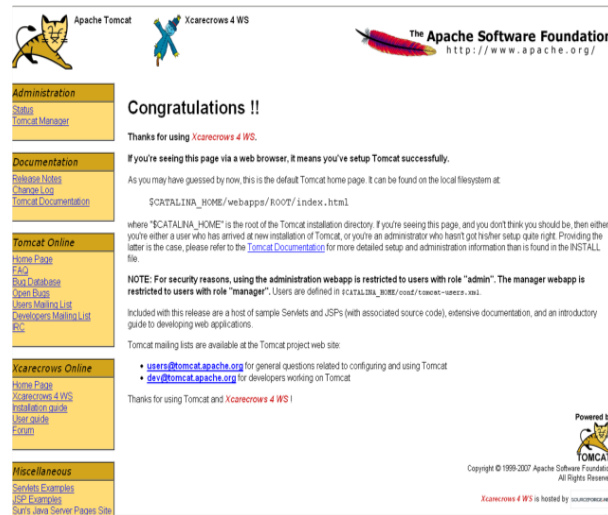


Fig. Tomcat Apache Page

Basic Concept of Association Rule:

- A support of an item set I is the number of transactions/rows containing I.
- A minimum support “s” is a threshold for support.
- An item set I is frequent if its support $\geq s$.
- A general form of an association rule is:
- Body = Head [Support, Confidence]

III. SOFTWARE

1. Xampp:

XAMPP is a free and open source cross-platform web server solution stack package, consisting mainly of the Apache HTTP Server, MySQL database, and interpreters for scripts written in the PHP and Perl programming languages. XAMPP requires only one zip, tar, 7z, or exe file to be downloaded and run, and little or no configuration of the various components that make up the web server is required. XAMPP is regularly updated to incorporate the latest releases of Apache, MySQL, PHP and Perl. It also comes with a number of other modules including OpenSSL and phpMyAdmin once installed on a device, each Android purpose While PHP originally stood for Personal Home Page, it now stands for PHP: Hypertext Preprocessor, which is a recursive acronym. PHP code can be simply mixed with HTML code, or it can be used in combination with various templating engines and web frameworks. PHP code is usually processed by a PHP interpreter, which is usually implemented as a web server's native module or a Common Gateway Interface (CGI) executable.

IV. WORKING OF THE SYSTEM

The overall project will be based on php and the data which will be entered by the user with help of MySQL.

- The user will login into system with the help of the login id and password which will be provided to them.
- Once the login will be successful then the doctor can add the patient's detail.
- On bases of the data entered into system the user can analysis on that data.
- And the result of which will be displayed in graph.

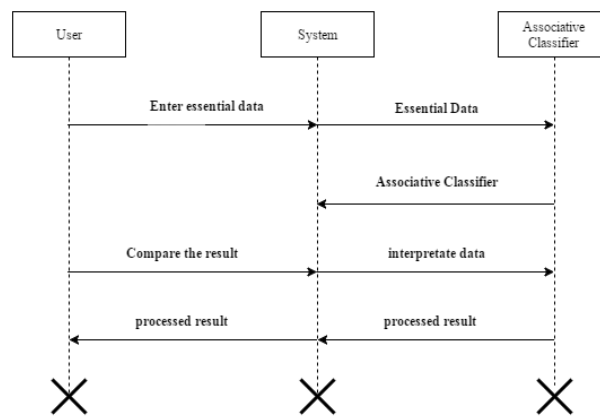


Fig: Sequence diagram

V. BENEFITS

- Accuracy is faster than another algorithm.
- One can find out that if a person smoke can suffer from heart disease or not.
- No need of internet connection.

VI. FURUTE WORK

- On comparing these two quantitative rule mining technique fuzzy provide higher performance on frequent datasets, low time consuming and less memory use and it cost less to develop because the advantages of fuzzy rule mining itself says that it is easier to design.
- In future the advanced association classifiers can be combined to fulfil the real time requirements. The temporal aspect can also be used to improve the prediction in future for the patients with the different age groups.

VII. CONCLUSION

- This is an ongoing project our primary objective is to provide an application which can help the doctor to make quick decision so, it will helpful for them without wasting there time .They can come to quick decision.
This will also help in survey. Suppose if the government wants the no. of person who smoke so with the help of this web base application it is easy to find out.

REFERENCES

1. Dr. U. Devi Prasad, S. Madhavi PREDICTION OF CHURN BEHAVIOUR USING DATA MINING TOOLS, business intelligence journal, January 2012
2. Charles Nyce, Predictive Analysis White Paper, American Institute for CPCU, 2007
3. Winter school on “Data mining Techniques and tools for knowledge discovery”, “association rule mining”
4. K. Rubia, S. Sasikala, “A comparative study of fuzzy logic and weighted Association rule mining on frequent datasets”, International Journal of Computer Science & Engineering Technology (IJCSET) Sep. 2014