



# Peculiarities and Assessment Analysis to Integrate for Best Rule Mining Using Data Mining

P. Ila Chandana Kumari, C.V. Radha Krishna

Associate Professor, Dept. of IT, Institute of Aeronautical Engineering, Hyderabad, India

Professor, Dept. of IT, Institute of Aeronautical Engineering, Hyderabad, India

**ABSTRACT:** *As the world technology is enhances to utmost peaks similarly this leads to challenge to the academics level to integrate these level of complexity. In this one case study set a route ie, Web Enabled Tools for Educational* The aim of this study was to present a free educational website data mining tools. Online account would use for the system developed in Asp.Net be useful for students of the college or university in electoral institutions, and training of students based on the feedback promotion. In ASP.NET, weapons and extraction algorithm institutional infrastructure bodies priori principles used in feedback tool-Fi-based analytic based on evidence obtained from students and feedback, which reflects the performance of staff and institutions. Using the data, helping to improve the management skills training following information in the hands of trends and study skills courses

## I. INTRODUCTION

Partition is the competitive environment in educational institutions whose primary purpose is to spread quality education to students of universities and improve their management decisions. The quality of education to improve the training of information education planners scientific university to promote to improve the decision-making process, to the academic performance of student improvement and student behavior in order to help teachers improve their their teaching and many other benefits, and access to mining plays an important role. Intelligent data mining techniques to sample data. Is a powerful analysis tool that enables educational institutions the right resources and staff to deal with the Student Union [1] Taking advantage of the educational data mining skills, which

defines the information that is important for educational institutions students. Education is a new trend of data mining techniques to study and analyze large amounts of data, which will be a learning environment, and to the methods in order to better understand the interests of the students to develop [2] [3]. The EDM software mining web data to help manage the information to get a competitive advantage, and knowledge and skills, analytical skills, and an understanding of the detection key associated with the extraction and evaluation of variables to improve, [ 4] is the learning process of the students .The main advantage of the web-based tool will be useful for future analysis, decision making and dynamic knowledge based on feedback [5] data mining based on the network for the way management of information on the performance of educational institutions. Mining environmental application is web-based and important data for your media collection, exchange and dissemination [6] learning platform is a content management system information and promote communication, online course is great, the son students choose the program you must control online, prepare the training, discuss, debate, etc. [7].

## II. THE FEEDBACK ANALYSIS TOOL BASED ON WEB

Tool is a web-based analysis, which is available in PHP document gathering feedback from students and the institutional infrastructure in terms of useful information has been developed in management decision making.

### 2.1.1 System Framework

Source data:

Tools This document focuses on understanding the various issues related to the success of education policy and institutional infrastructure of the Student Union data analysis tools. Students Union, we have collected the samples in this study. A student feedback, which comes in the form of 1-10 classification and attributes used in the database table fixed in Tables 1 and 2

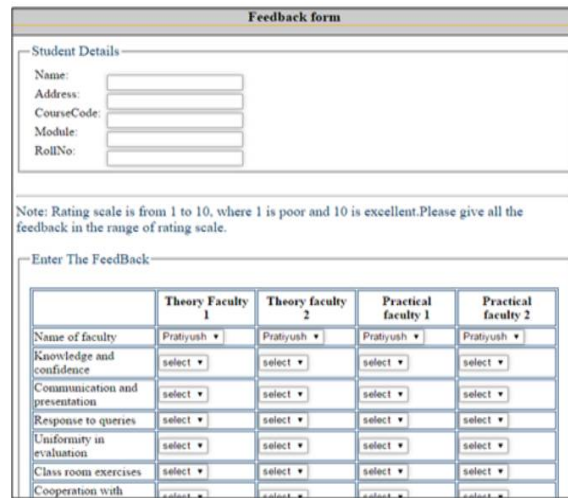


fig: 1. Students of the faculty have a feedback form to rate the faculty of theory and practical

Fieldname	Data type
Id	int
Contents	int
Planning	int
Material	int
Library	int
Infra	int
cleanliness	int

Table.1: peculiarities for Faculty in institute

Fieldname	Data type
ID	int
Name	varchar(30)
Knowledge	int
Comm.	int
Response	int
Uniformity	int
Exercises	int
Cooperation	int
Adherence	int

Table.2: peculiarities for students in institute

prepare:

It consists of filtering and formatting data. The device for students approach restrictions, and fill in a feedback form if the student drop-down box to avoid invalid or weapons name items. It does not help real assessment of the results and reduce the time required. Is the evaluation, Table3 shows the symptoms, according to the students in our class institutions and feedback analysis system, and Figure 1 and Figure 2 is a user interface associated with the faculty and the institution.

SrNo.	Features for Faculty Rating	Features For Institutional Rating
1	Knowledge	Course Contents
2	Communication and Presentation	Planning of Programme(Course calendar)
3	Response to Queries	Course Material
4	Uniformity in Evaluation	Library Facility
5	Class Room Exercise	Infrastructure(Class Rooms, Practical Labs)
6	Cooperation with students	Cleanliness
7	Adherence to schedule	General Arrangement of work Place

Table.3: various features for rating to students and faculties

Institution Feedback		Rating Scale(1-10)	
1.	Course contents		
2.	Planning of Programme(Course Calender)		
3.	Course Material		
4.	Library facility		
5.	Infrastructure(Class Rooms,Practical Labs etc.)		
6.	Cleanliness & Gen arrangement of work place		

Fig 2: Infrastructure feedback form where rating is done to analyze institution performance

The feedback data collected in the form of students, and the question of the mechanism is used, and the results are shown in Figure 8:09 Arm institutional infrastructure development need good performance of the instrument.

#### IV. SIMULATION ANALYSIS

The rules are open to the public presentation elected. Figures 4 and 5, respectively. From Figures 6 and 7 of the Federation of preference rules shows that students chose technology systems distribution network and distribution systems, advanced microprocessor chosen combination. General battery equipment is shown in Figure 3, multiple choice and open support. The maximum grant for "digital electronics", "UNESCO" Figure 1 is an open option, "CPM\_2", "neural network", which is open to the 02:06 option, electronic digital strict rules MG => CPM\_2 and CPM\_1 => CG. Similarly, create one lane common figure 5 and support areas optional. The maximum grant seven artificial intelligence, or one selected by the Department of Cell Optional DB 2, the parallel algorithm, which is the fourth Division -3 voluntary or optional networks and Adv.Computer Figures 5 and 6 show the results of the analytical instruments rated characteristics of teachers, the requirements of infrastructure systems, and curriculum.

Freq. Items OE			
Id	OE1	OE2	Support
1	Digital Electronics	Communication Engg.	2
2	IBE	Industrial Env.	2
7	IBE	Neural Networks	3
8	Digital Electronics	CPM_2	3
16	CPM_1	CG	2
18	IBE	Communication Engg.	2
19	IBE	CPM_2	2

OE Strong Rules

- Digital Electronics -> CPM\_2
- CPM\_1 -> CG

Fig 3: For selection of open electives Association rules generated by application

Freq. Itemssets DE					
Id	DE1	DE2	DE3	DE4	Support
2	Web Tech.	Distributed Systems	Adv. Microprocessors	Embedded Systems	3
3	Web Tech.	Distributed Systems	Parallel Algo.	Adv. Comp. Networks	3
4	AI	Mobile DB	Parallel Algo.	Adv. Comp. Networks	7
5	AI	Distributed Systems	Adv. Microprocessors	Embedded Systems	4
13	Web Tech.	Distributed Systems	Adv. Microprocessors	Adv. Comp. Networks	3
15	Web Tech.	Mobile DB	Adv. Microprocessors	Adv. Comp. Networks	4

DE Strong Rules


- Web Tech. -> Distributed Systems
- Web Tech. -> Adv. Microprocessors
- Distributed Systems -> Adv. Microprocessors
- Distributed Systems -> Embedded Systems
- Distributed Systems -> Adv. Microprocessors -> Embedded Systems

Fig 4: Association rules generated by application for department elective subjects



Topic	Percentage
Course contents	50%
Planning of programme	60%
Course Material	70%
Library Facility	30%
Infrastructure(Class Rooms, Practical Labs etc.)	30%
Cleanliness and gen arrangement of work place	50%

Fig 5: Institute`s Feedback generated by PHP based app



Faculty Name	Amit	Vijay	Pratiyush	Divya
Knowledge	70%	80%	90%	80%
Communication and Presentation	60%	90%	80%	80%
Response to queries	70%	80%	90%	90%
Uniformity in evaluation	80%	90%	100%	90%
Class room exercise	80%	90%	80%	90%
Cooperation with students	90%	80%	90%	70%
Adherence to schedule	70%	90%	90%	90%
Overall Performance	74%	85%	88%	84%

Fig:6. The results led to the use of theoretical knowledge and practical

## V. SUMMARY

The advent of Internet-based programs, including trailers, e-learning, with the evaluation of the use of teaching materials and the analysis of trends to better serve users of new web-based tool for data mining for students. Web-based learning, the results showed the results and analysis of data. The equipment presented in this paper is focused on education and students. No help to ensure the quality, but also because of new management. Mining web-based tools are valuable documentation management skills, knowledge of the source of competitive advantage. We take care of the simple image of a User Interface tool for students who do not face problems with the supply of data entry. ARM tool to help teachers rule classification organization, management students' knowledge and interest in the technology, tools and offer new courses,. The use of these materials, it was found that the conversion of intuitive performance, which means that the author, management and decision may be required in the case of student achievement. Additionally, in the sense that we are trying to bring their products and the results of data mining applied to the field of electronic learning.

## REFERENCES

1. Luan Jing (2001). data mining in higher education. The number of new directions of research institutes ago. Joss Bass. San Francisco
2. R.B. Sachin, M. Vijay S (2012). Research and vision of the future of education data mining. pp.96 - 100.ISBN: 978-1-4673-0471-9
3. Monika Goyal Raj Vohra, mining (2012) .the higher education programs. IJCSI. T. 9 No. 2, No. 1 ISSN (Online): 1694 in 0814
4. Brijesh Kumar Bhardwaj, Saurabh Pal (2011) Analysis of Education student performance data mining. International Journal of Advanced Science and computer programs. T. 2, # 6.
5. John H. Heinrichs, Lim Su Jeen (2003). business model is based on a position to manage the introduction of tools for data mining. 35,103- 112 Decision Support Systems.
6. R. Zaiane OR, Luo, J. (2001). Evaluation of student behavior in the field of Internet-based distance learning. Advanced Learning Technologies 2001 Court. IEE International Conference (pp. 357-360). IEEE.
7. Romero C, Ventura, S. (2007) Education Mining: The research program started in 1995 2005.Expert 33, 135-146
8. Deva Sarma Pankaj Kumar, Rahul Roy (2010) which will be used in the event the new store data mining stall default. Assam University Journal of Science and Technology: Physical Science and Technology, Vol II # 6, 125-129
9. Ruijuan Hu (2010). Data mining the principles Medical Association. Information Technology, ISSN 1913-8989 E-ISSN 1913- 8997, Vol. 3, # 4.
10. B. Liu and C. K. Wong (2000) to improve the standard of community-based classifier. Principles of Data Mining and Knowledge Discovery Journal, p. 504-509.