Secure E-Learning by Using Data Mining Technique

[1]Pragati Mohod, [2]Nayan Modse, [3]Poonam Fokmare,
[4]Pranali Mandale, [5]Anushri Raut
Student's, P. R. Pote (Patil) Group
Of Educational Institutions,
Amravati,Sant Gadge Baba Amravati University,
Pote Estate, Kathora Road,Amravati
Email Id: [1]mohodpragati3@gmail.com,
[2]nayanpatil8561@gmail.com
Contact: [1] 7769070258,[2]8554921269

Guided By: Prof. K. B. Bijwe
Assistant Professor,
P.R.Pote (Patil)Group Of Educational Institutions,
Amravati,Sant Gadge Baba Amravati University,
Pote Estate, Kathora Road,Amravati

Abstract: There are many fields which are using data and technology approaches to improve Education and Learning.Academic Analytics is a supplier of high-quality, custom business intelligence data and solution. Learning Analytics is the measurement, collection, analysis and reporting of data about learners and their factors, for reasons of understanding and optimizing learning and the environments in which it occurs .Data Mining techniques have been applied in both, Learning and Administrative problems. In Learning, the process is divided into learner-oriented and educator-oriented. In learner oriented the focus is on supporting the student to learn more effectively by suggesting new contents and in educator oriented the goal is to provide the educator a tool to allow system so it can guide the learner more effectively.

Keywords: *Originate, E-Learning, Data mining, Administrative.*

_____*****_____

I.   Introduction

E-learning is a new and strong way of delivering demands for students. It recommend increased access to education and training moment through on-demand availability, cost savings, educational courses, consistent and accurate delivery, compressed instruction and opportunities for cooperation. E-learning can be used in a variety of ways and will be united into the mainstream of education and training programs. Data mining is the process of classifying through large data sets to recognize patterns and developed association to solve problems through data analysis. Data mining tools allow tasks to forecast future movements.

II.   Literature Review

In[1] Priyanka R. Pradhanproposed Secure E-learning evolution of E-learning platform in year 2015. This platform based on data security. Data mining methodologies helps learner to learn fluently and flexibly. It is platform where learning through discovery can be possible because of interactive media.

In[2] Ertugrul Ergun UtkuKose proposed Data mining technique to provide currently performed research studies and relatedapplications of the data mining approach and its techniques in e-learning in year 2010. The related study can be evaluated as a survey of the literature in this area up to date. In this sense, analyzing these data may enable teachers to get more idea about success of the performed educational processes.

In[3] Katrina sinproposed recent applications of Big Data technologies in education in year 2015 .Presents a review of literature available on Educational Data Mining and Learning Analytics. The usage of learning management systems in education has been increasing in the last few years.
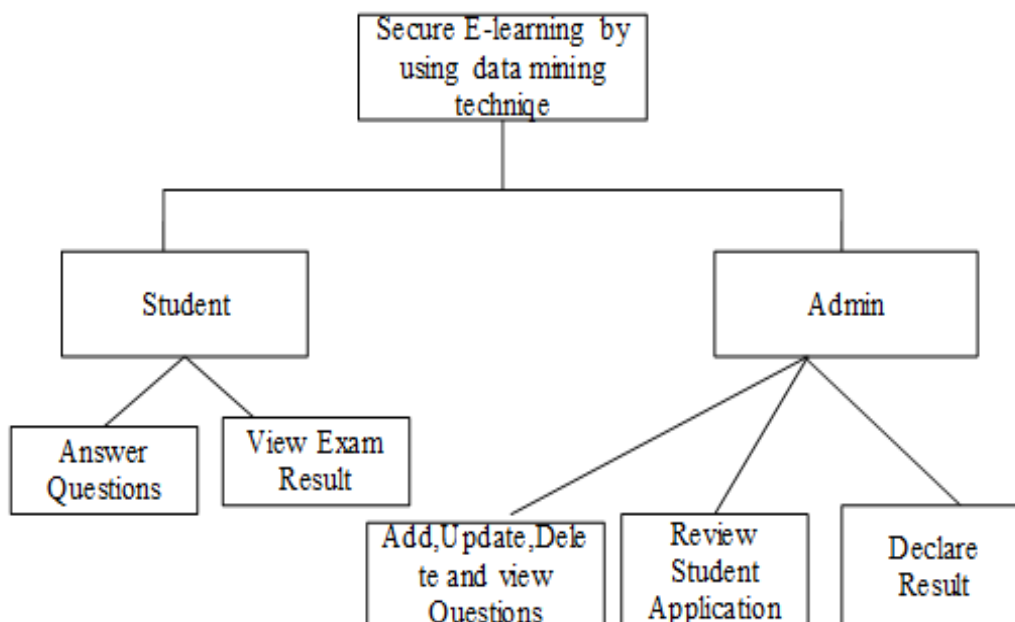
In[4] S. Lakshmi Prabhaproposed Educational data mining in year 2015. Explains how the data mining tasks classification, prediction, and clustering can be applied to data taken from an e-learning system. The performance of sixth grade school students are taken for the analysis and present the results achieved with WEKA tool.

In[5] Dusanperovic proposed Data mining influence show how data mining helped profit and non-profit organizations in year 2015.Whole society to make better decisions and find a better direction for their everyday activities. Also, there will be mention some limitations and challenges about data mining use in modern world. Data analysis has improved many social aspects. Modern business is unthinkable without a proper use of data analysis tools.

III. Proposed system

This system is able to keep record of each student systematically and effectively. Administrator has a privilege to create, modify and delete the question as well as data of course materials. It can retrieve data easily. The proposed computer based information system via increasing speed of information retrieval, by increasing processing speed, data security and hence gives accurate reports. The proposed system fully satisfies user needs. Student can give the test .After the test result is generated automatically by the server. The result is in the form of report and provided to the student as well as admin. By using this report admin can analyze the progress of student.

IV. Conclusion

This system provides facility to conduct online examination worldwide. It helps to improve the speed and effectiveness of the educational system. In todays world each individual expects just in time learning and this requirement can be fulfill by using this elearning technique.

References:

[1].   Priyanka R. Pradhan",*Review on Secure E-Learning using Data MiningTechniques and Concepts,* International Journal of Engineering Research & Technology (IJERT), 2015, Vol. 4 Issue,pp. 1203-1205.

[2].   Ertugrul Ergun, Omer Deperlioglu, UtkuKose*," using data mining technigues in e-learning",*iodl&icem 2010 Joint Conference and Media Days,2010,pp.263-271

[3].   Katrina Sin1 and LoganathanMuthu*,"application of big data in education data mining and learning analytics – a literature review",*ictact journal on soft computing: special issue on soft computing models for big data, volume: 05,pp:1035-1049, 2015.

[4].   S. Lakshmi Prabha," *Application of Educational Data mining techniques In e-Learning- A Case Study",* (IJCSIT) International Journal of Computer Science and Information Technologies,Vol. 6 (5),pp. 4440-4443,2015.

[5].   Dušanperović,"*data mining influence on e-learning*", The Sixth International Conference on e-Learning,pp: 1023-1025, September 2015.

[6].   Dr.P.Nagarajan,Dr.G.WiselinJiji,*"Online Educational System (e – learning)",* International Journal of u- and e-Service, Science and Technology ,Vol. 3, No. 4,pp:134-138, December, 2010.