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Perception Among Students In Private And Government Education Industry

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ABSTRACT

Data mining is needed to extract valuable information from seemingly meaningless data. Data mining techniques have revolutionized the way we interpret data and is becoming the backbone of every major decision support system in a MIS. Recent advances in IT Technologies and increasing access to the internet with the help of mobile computing devices has increased general awareness to a large extent. In this paper, we discuss the various applications of data mining and need for knowledge discovery, required for understanding and awareness of people regarding the various aspects of education industry.

Keywords:- Data Mining, Knowledge Discovery, Management Information System, Education Industry.

I. INTRODUCTION

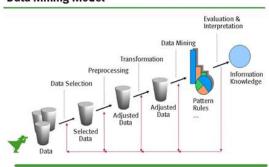
Data Mining, the removal of hidden prognostic information from large databases, is an effective new technology with great possibility which helps companies target on the most necessary information in their data warehouses. Data mining tools forecast future trends and actions, allowing businesses to make dedicated, knowledge-driven The decisions. mechanized, recommended analyses offered by data mining move beyond the analyses of past events provided by reflective tools exemplary of decision support systems. Data mining tools can explain business questions that consistently took a lot of time to resolve.

A. Knowledge Discovery Process

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The term Knowledge Discovery in Databases, or KDD for short, refers to the wide process of finding knowledge in data, and stress upon the "high-level" application of particular data mining methods. It is of concern to researchers in machine learning, pattern recognition, databases, statistics, artificial intelligence, knowledge gain for expert systems, and data visualization. The consolidating goal of the KDD process is to identify knowledge from data in the context of large databases.

Data Mining Model



B. The Knowledge Discovery Process Steps:

- 1) Identify business problem
- 2) Data mining
- 3) Action
- 4) Evaluation and measurement
- Deployment and integration into businesses processes

C. Techniques of Data Mining:

There are several major data mining techniques have been developed and used in data mining projects recently including association, classification, clustering, prediction and sequential patterns.

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- 1) Association: Association is one of the best known data mining method. In association, a pattern is invented based on a connection of a particular item on other items in the same undertaking. For example, the association technique is used in market basket analysis to identify what products that customers often purchase together. Based on this data businesses can have equivalent marketing drive to sell more products to earn more profit.
- 2) Classification: Classification is a classic data mining technique based on machine research. Basically classification is used to allocate each item in a set of data into one of described set of groups or classes. Classification method makes use of mathematical approaches such as linear programming, neural network, statistics, and decision trees. In classification, we make the software that learns to classify the data items into groups. For example, we apply classification in application that provides all past history of employees who left the company, conclude which current employees are likely to leave in the future. In this case, we separate the employee's records into two groups that are "leave" and "stay". And then we can ask our data mining software to classify the employees into each group.
- 3) Clustering: Clustering is a data mining technique that makes essential or useful cluster of objects that have identical characteristic using automatic technique. Clustering technique also defines the classes and put objects in them, while in classification, the objects are assigned into predefined classes. To make the perception clearer, we can take library as an example. In a library, books have a wide extent of topics available. The question is how to keep those books in a way that readers can take several books in a particular topic without any problem. By using clustering technique, we can keep books that have some kind of sameness in one cluster or one shelf and mark it with a meaningful name. If readers want to fetch books in a topic, he or she would only prefer that shelf instead of looking the whole in the entire library.
- 4) Prediction: The prediction as it name implied is one of a data mining techniques that determines relationship between independent variables and relationship between dependent and independent variables. For instance, prediction analysis technique can be used in sale to forecast profit for the future if we consider sale is an independent variable, profit could be a dependent variable. Then based on the previous sale and profit data, we can draw a fitted backsliding curve that is used for profit prediction.
- 5) Sequential Patterns: Sequential patterns analysis in one of data mining technique that looks for to discover similar patterns in data transaction over a business span.

The uncover patterns are used for further business analysis to identify relationships among data.

D. Data Mining Applications

Data mining is a process that examines the large amount of data to find the new and hidden information that promotes business efficiency. Various industries have been choosing data mining to their mission-critical business processes to gain competitive advantages and help business grows. This tutorial explains some data mining applications in health care and insurance, transportation, sale/marketing, banking/finance and medicine.

The growth of the insurance industry completely depends on the ability of modifying data into the knowledge, information or understanding about customers, competitors and its markets.

Data Mining Applications in Medicine

- Data mining enables to distinguish activities of patients to see coming office visits.
- Data mining help recognize the patterns of successful medical analysis for different illnesses.

II. MANAGEMENT INFORMATION SYSTEM

The Management Information System (MIS) is an approach of the last decade or two. It has been described in a number of ways. It is also known as the Decision System, Information System, and the Computer- based information System. Management information system, or MIS, refers to a computer-based system that provides managers with the tools to organize evaluate and efficiently manage departments within an organization. In order to provide past, present and future information, a management information system can include software that helps in decision making, data resources such as decision support systems, databases, the hardware assets of a system, people management and project management applications, and any computerized methods that helps the department to run smoothly. MIS IS -:

Information

Data that has been put into an essential and beneficial context. Usually to help make a decision.

Management Information System

A combo of computers and people that is used to provide information to assist in making decisions and directing a firm.

Information Technology (IT)

A. Role of Management Information System

The role of the MIS in an organization can be related to the role of heart in the body. The information is the blood and MIS is the heart. The MIS performs exactly the same role in the organization. The system assures that a suitable data is gathered from the various sources, processed, and then sent further to all the required destinations. The system is supposed to accomplish the information needs of an individual, a group of individuals, the management handlers: the top management and the managers. The MIS benefits the clerical personnel in the transaction processing and answers their doubts on the data belonging to the transaction, the position of a specific record and citations on a range of documents.

III. GOVERNMENT VERSUS PRIVATE EDUCATION INDUSTRY

The ability of any society to work and prosper is the result of many factors, the most important of which are education, food, and health. Education is one of the most significant tools that devote directly to the achievement of growth and development for a nation, to the accomplishment of new generations, and to the abilities and skills of a country's human resources. It also assists the individual with social needs at different stages in their lifetime.

The most important phase of education in any country is the primary stage. Alongside other things related to this stage, it focuses not just on formal education, but on bringing up a new generation, and on building knowledge in children and the ability to think for themselves. In addition, this stage involves building knowledge through scientific and educational curricula that is the basis for moving forward and will direct and develop the thoughts, the skills, and the abilities of pupils. It also qualifies them to reach subsequent educational levels based on curricula related to the primary stage. For these reasons, countries pay careful attention to this stage of education and provide all the pre-requisites, from institutional and administrative aspects, to educational management, curricula, and teachers. They do so because this is a crucial time in a child's schooling. It is observed that many countries have an educational management system that consists of two sectors that contribute to the provision of education. Most countries depend on contributions from the private sector to provide some educational services, especially in terms of the primary level.

While the focus of education policy in developing countries such as India has largely centered on increasing the resource base and the number of government-run schools, the role of private fee-charging schools in the

primary education sector has not been appreciated as much by academics and policy makers. However, as several recent papers point out, private fee-charging schools increasingly cater to a substantial fraction of the primary-school going population in India. The increasing prevalence of private schools is due to the poor performance of public schools, it has not been easy to systematically disentangle the extent to which the creation of private schools is reflecting demand due to poor public school performance as opposed to rising incomes. Private-school teacher salaries in rural India are typically less than one-fifth the salary of regular publicschool teachers (and are often as low as one-tenth as much). This enables the private schools to hire more teachers, have much lower pupil-teacher ratios, and reduce multi-grade teaching.

IV. LITERATURE SURVEY

The purpose of this study is to identify and compare the causal attributions made by students, teachers and parents for perceived limited parental participation in specific parental involvement activities to support their children's schooling or involvement of low-educated versus highly-educated parents.

A survey helps the researcher to build background on the survey problem. This type of research is required when the research problem is new or when the information available about the problem is limited.

A literature review on educational data mining topics such as student retention and attrition, absenteeism, lack of interest, teacher's skill, parent's view within education, and how data mining can be used to analyze and differentiate between government and private education. Gaps in the current literature and opportunities for further research are presented.

Different number of audiences has been surveyed. The basis of survey was questionnaire cum interviews. I was conducted on a sample of teachers and educational and administrative staff at public and private schools. This was to obtain feedback on the problem.

Kotor Asare (2015) described exploring the Kindergarten Teachers' Assessment Practices in Ghana. The study aimed at investigating kindergarten teachers' assessment practices based on two subscales: (a) teachers' modes of assessment frequently used, and (b) their reasons for selecting a particular mode of assessment. The sequential mixed methods research design was employed. The quantitative data were gathered through questionnaires administered to 192 teachers in public and private kindergartens in six regions of Ghana.

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The qualitative data were gathered through interviews 4. with three participants selected from the 192 sampled teachers. Independent samples t-test was employed to test the quantitative data. The results of the study indicated that paper- and- pencil test mode of assessment is used frequently by the teachers. In addition teachers also appeared to be using a particular mode of assessment just to meet the expectations of the parents and educational leaders without meeting the curriculum assessment prescription. Results further showed no significant difference between the public and private kindergarten teachers on almost all the items in the two subscales used in this study but differed significantly on four reasons for selecting a particular mode of assessment. Teachers' assessment practices are therefore not supported by any known developmentally assessment theory for children.

Andy Green, Angela W. Little, Sangeeta G. Kamat, Moses Oketch and Edward Vickers (2007): Education and Development in a Global Era: Strategies for 'Successful Globalisation' As our research progressed we arrived at a broad operational definition of 'successful globalisation' as growth with relative income equality and social peace. The post-1980 phase of globalisation promoted by the West has been characterised by the introduction of policies designed to forge a greater integration of economies with global markets and the growth of information technology. The goal of economic growth, entailed by these polices, nationally and globally, appears to have overshadowed equally important goals of development - equality and peace. Our concern has been to assess national performance in relation to all three aspects of development, and the role of education in contributing to this.

V. METHODOLOGY

The primary goal is to observe the perception among students in private and government education industry.

Following will be the steps involved during the research:-

- Selection of a study sample on educational culture differences private and government education industry.
- To Measuring the teachers skills, expectations, and attributes of the methods of Teaching.
- 3. To involve teaching in quality improvement; determine teachers' satisfaction.

- The moderating role of students feel valued, schools can better drive education results through their human capital.
- 5. To develop a questionnaire consisting of various questions/parameters.
- 6. To interact with the students, parents & teachers in acquiring their views based on questionnaire.
- 7. To analyse the collected response by using various statically test & data mining techniques.

VI. PROBLEM FORMULATION

This research problem relates to the extent of the difference between public and private schools in terms of methods of teaching.

The Confusion and indecision of parents about whether their children should go to public or private schools.

The lack of clear criteria for comparison between both types of education.

The absence of any clear reasons why some parents prefer public schools while others prefer private schools based on teaching and students' achievement.

As comparative Private-school teacher salaries in rural India are typically *less than* the salary of regular public-school teachers.

Skills of teachers are less than the private teachers.

VII. CONCLUSION AND FUTURE SCOPE

Private education provides more resources and is more liked by parents, students and teachers. For job perspective teachers prefer public/government education. Parents and students needs to be convinced by the schools for taking admission. Gender may also influence the admission due to the fact of co-ed facility. Teacher-Student association is high in private as comparison to public sector. Structure of building, ground and availability of resources is more in private in contrast to public. School climate and interaction are at par in public and private education sector according to the response. These factors are less bothered.

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