Data Mining Application in Higher Learning Institutions

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Summary/Abstract: One of the biggest challenges that higher learning institutions face today is to improve the quality of managerial decisions. The managerial decision making process becomes more complex as the complexity of educational entities increase. Educational institute seeks more efficient technology to better manage and
support decision making procedures or assist them to set new strategies and plan for a better management of the current processes. One way to effectively address the challenges for improving the quality is to provide new knowledge related to the educational processes and entities to the managerial system. This knowledge can be extracted from historical and operational data that reside in the educational organization's databases using the techniques of data mining technology. Data mining techniques are analytical tools that can be used to extract meaningful knowledge from large data sets. This paper presents the capabilities of data mining in the context of higher educational system by i) proposing an analytical guideline for higher education institutions to enhance their current decision processes, and ii) applying data mining techniques to discover new explicit knowledge which could be useful for the decision making processes.

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Learn about other applications of data mining in real world. Table of Contents. What is Data Mining? Data mining, along with machine learning, statistics, data visualization, and other techniques can be used to make a difference. It can come in handy when forecasting patients of different categories. This will help patients to receive intensive care when and where they want it. Data mining brings together different methods from a variety of disciplines, including data visualization, machine learning, database management, statistics, and others. These techniques can be made to work together to tackle complex problems. 8.3 Data-Mining and Machine-Learning Applications in PPDM.189 8.3.1 Privacy Preservation Association Rules (Table 1.1, A.4).…..189 8.3.2 Privacy Preservation Decision Tree (Table 1.1, A.6).193 8.3.3 Privacy Preservation Bayesian Network (Table 1.1, A.2).194 8.3.4 Privacy Preservation KNN (Table 1.1, A.7).197. Higher-level methodologies are also required to discover the embedded and lurking cyber intrusions and cyber intrusion techniques, so that a more reliable security cyberinfrastructure can be utilized. Many higher-level adaptive cyber defense systems can be partitioned into components as shown in Figure 1.2. Figure 1.2 outlines the five-step process for those defense systems. We discuss each step below. Data Mining Application in Advertisement Management of Higher Educational Institutes. In recent years, Indian higher educational institute's competition grows rapidly for attracting students to get enrollment in their institutes. To attract students educational institutes select a best advertisement method. There are more. In recent years, Indian higher educational institute's competition grows rapidly for attracting students to get enrollment in their institutes. To attract students educational institutes select a best advertisement method. There are different advertisements avai