Applying Data Mining in Higher Education to predict Students and Faculty Performances

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ABSTRACT

Data mining techniques have been applied to educational research in various ways. Many researchers are doing research on how technology can be beneficial to Higher Educational institutes. This paper presents a model for organizing and measuring knowledge upgrade in systems of education and learning with the support of Data Mining. The main idea in this paper is that the hidden patterns, associations, and anomalies that are discovered by data mining techniques can help bridge the knowledge gap in higher educational systems. The various data mining algorithms are applied on students data to predict their future performances. Faculty performance is also predicted on the basis of the test score of the students. These results help higher education institutes to decide the individual programs to enhance students skill set to improve their performance as well as faculty development programs to suit each faculty. This will help the higher education institutes to stay competitive in the market, achieve better results, better campus placement and higher ranking.