



RESEARCH ARTICLE

An Empirical Study of Applications of Data Mining Techniques for Predicting Student Performance in Higher Education

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Abstract— Educational institutions are important parts of our society and playing a vital role for growth and development of nation and prediction of student's performance in educational environments is also important as well. Student's academic performance is based upon various factors like personal, social, psychological etc. Educational data mining concerns with developing methods for discovering knowledge from data, that comes from educational domain. The Data Mining tool has accepted as a decision making tool which is able to facilitate better resource utilization in terms of students performance. In this paper a student data from an engineering college has been taken and various data mining methods have been performed. This paper addresses the applications of data mining in educational institution to extract useful information from available data set and providing analytical tool to view. The result of study is aimed to develop a faith on data mining techniques so that present education system may adopt this as a strategic management tool.

Indexed Terms: - Academic performance, Data mining, Data classification, Clustering, Student's result database.

Full Text: <http://www.ijcsmc.com/docs/papers/February2013/V2I2201310.pdf>