

Data Mining Analysis on Student's Academic Performance

ABSTRACT

Data mining is the evolving process of identifying and extraction the hidden information from a data warehouse. Data Mining is widely used in business, medical, engineering areas. In this study we will be covering the application of data mining in education for predicting the academic performance of the students. Educational Data Mining(EDM) plays a dominant role in the data mining era. With the help of EDM we can predict the academic performance of the students using different techniques like Decision tree, Random Forest, Naive Bayesian and Multilayer Perceptron. In this paper, we will be implementing the decision tree method for predicting the academic performance of the students, by not only collecting the academic grade but also the students background details, social details and academic details for predicting the performance of the students. The model can be used by the educational institution and teachers for improving the performance of the weak students.