

**VISVESVARAYA TECHNOLOGICAL UNIVERSITY  
BELAGAVI**



**A PROJECT REPORT ON  
IMPROVING THE STUDENT'S PERFORMANCE USING  
EDUCATIONAL DATA MINING  
SUBMITTED IN PARTIAL FULFILLMENT FOR THE AWARD OF DEGREE OF  
BACHELOR OF ENGINEERING  
IN  
INFORMATION SCIENCE AND ENGINEERING  
BY**

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**ALVA'S INSTITUTE OF ENGINEERING AND TECHNOLOGY**

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**CERTIFICATE**

*This is to certify that the Project entitled "IMPROVING THE STUDENT'S PERFORMANCE USING EDUCATIONAL DATA MINING" has been successfully completed by*

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*the bonafide students of Department of Information Science & Engineering, Alva's Institute of Engineering and Technology in partial fulfillment for the award of BACHELOR OF ENGINEERING in DEPARTMENT OF INFORMATION SCIENCE AND ENGINEERING of the VISVESVARAYA TECHNOLOGICAL UNIVERSITY, BELAGAVI during the year 2015–2016. It is certified that all corrections/suggestions indicated for Internal Assessment have been incorporated in the report deposited in the departmental library. The project report has been approved as it satisfies the academic requirements in respect of Project work prescribed for the Bachelor of Engineering Degree.*

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1.

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## **ABSTRACT**

Data Mining is the process of extraction of useful information from Data Warehouse. The main goal of educational data mining is to improve the student performance. The usage of data mining techniques which achieves the goal in an efficient manner. The discovery of knowledge that extract from the end semester is one of the method for improving the quality of higher education.

In the higher education, the analysis on enrolment of student's performance in a particular course, the student talent, confidence, studies and ethic helps to get more knowledge. As competitive environment exists among the academic institutions, increasing the quality of education is considered as a challenge. Student's performance is of great concern to the higher education. Educational data mining aims at predicting the result of the student prior to the examination to improve the student performance. The data mining techniques such as classification and decision tree approach are used to achieve the final results.

In the educational institution, the prediction of the student's result is based on the analysis of the student's data set which includes various attributes such as previous semester marks, attendance, communication skills, economic condition etc. The system helps to identify promising students and also provides them an opportunity to pay attention to their studies and to improve those who would probably get lower grades. It helps the educational institutes to know student's result priorly and take necessary actions to improve their grades by giving extra coaching and counseling which gives high quality of education.