

SYNOPSIS OF THE PROJECT

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Project Title	Improving Learning Experience of Students by Early Prediction of Student Performance using Machine Learning
<p>Brief Description of Project:</p> <p>Early indications regarding students' progress help academics to optimize their learning strategies and focus on diverse educational practices to make the learning experience successfully. Machine learning application can help academics to predict the expected weaknesses in learning processes and as a result they can proactively engage such students in better learning experience. We applied logistic regression, linear discriminant analysis, K-nearest neighbors, classification and regression trees, gaussian Naive Bayes and support vector machines on historical data of student grades in one of the undergraduate courses and developed a model to predict the grades of students taking the same course in the next term. This experiments show Linear discrimination analysis as the most effective approach to correctly predict the students' performance outcome in final exams. Out of total 54 records, 49 were predicted by model as expected giving 90.74% of accuracy.</p>	
Platform	Deep Learning
Front End Tools	HTML Page
Back End Tools	Deep Learning

Date of Submission: 01/02/2023