TS- WEB/CC/AI TRACK CAPSTONE PROJECT

PROJECT TITLE

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OUTLINE

- **Abstract**
- **Problem Statement** (Should not include solution)
- **Aims , Objective & Proposed System/Solution**
- **System Design**
- **System Development Approach(Technology Used)**
- **Algorithm & Deployment**

Abstract

●Analyzing and predicting academic performance is important for any educational institution. Predicting student performance can help teachers to take steps in developing strategies for improving performance at early stages. With the advancement of machine learning and supervised and unsupervised techniques developing these kinds of applications are helping teachers to analyze students in a better way compared to existing methods. In this student marks prediction using Linear regression project students' academic performance is predicted considering input as previous students' marks and predicting next subject marks and the accuracy of the model is calculated.

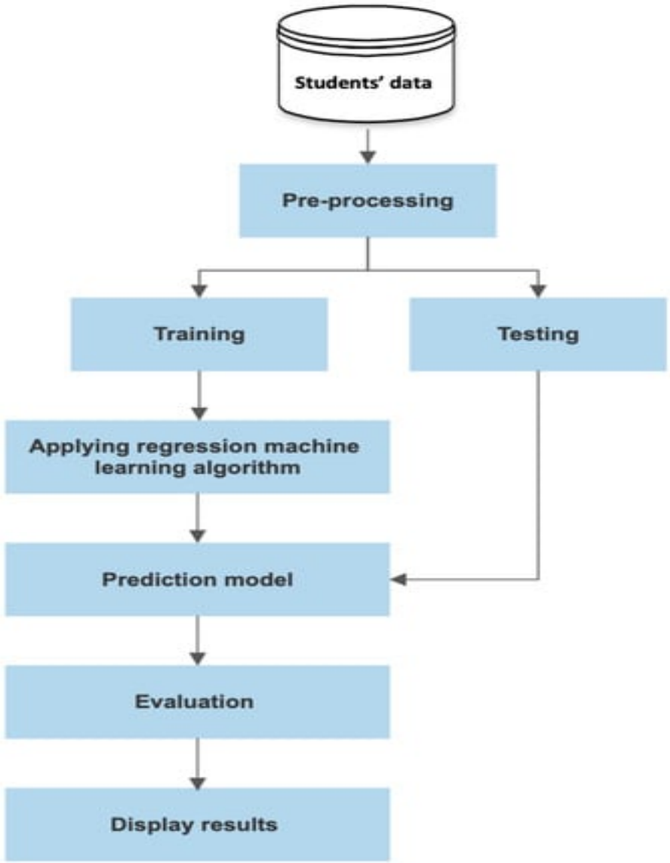
Problem Statement

•Analyzing and prediction of marks for students was done based on guesses and students' personal marks details are not considered for academic evaluation.

Proposed Solution

•Students’ marks in other subjects are taken as input for the evaluation of students’ performance. The data set is pre-processed and features and labels are extracted from the dataset then the dataset is split into test and train sets then linear regression is applied to the dataset for prediction.

System Architecture



System Deployment Approach

- i) Identify basic requirements.
- ii) Develop initial prototype.
- iii) Review : The customers, including end-users, examine the prototype and provide feedback for additions or changes.
- iv) Revise and Enhance the Prototype : Using the feedback both the specifications and the prototype can be improved.

Algorithm & Deployment

```
model = LinearRegression()
model.fit(xtrain, ytrain)
model.score(xtest, ytest)
```

THANK YOU