

# Project Idea Submission

---

**Project: Student Marks Prediction Model using Linear Regression**

**Course:** Data Science – BSCS-V, Section E

**Instructor:** Dr Muhammad Ismail Mangrio

## **Group Members:**

- Sarfraz Ali Katpar (CMS: 023-23-0045)
- Hassan Ali Abro (CMS: 023-23-0046)
- Faizanullah Korai (CMS: 023-23-0047)

## **Project Idea:**

Our group aims to develop a Student Marks Prediction Model using Supervised Machine Learning (Linear Regression). The goal is to predict a student's final marks based on multiple academic and behavioral factors such as

- ✓ Hours studied
- ✓ Attendance percentage
- ✓ Assignment scores
- ✓ Quiz scores
- ✓ Class participation

We will perform data preprocessing, exploratory data analysis (EDA), feature selection, and then train a regression model to analyze how each factor affects the student's overall performance. The model will output the predicted marks for a student based on input parameters.

## **Expected Outcome:**

A regression-based predictive model capable of estimating students' marks based on academic habits and performance indicators.