

Understanding how study behaviors influence academic outcomes

Team Two

- Charu
- Prabhat
- Upendra

Problem Statement

This Project Aims To:

1

INVESTIGATE THE IMPACT OF STUDY-RELATED HABITS LIKE HOURS OF STUDY, SLEEP DURATION, AND CLASS ATTENDANCE

2

USE THESE VARIABLES TO PREDICT EXAM SCORE

3

PROVIDE ACTIONABLE INSIGHTS TO IMPROVE STUDENT PERFORMANCE

Type of Problem & Model

Problem : This is a regression problem.

Model Used : We will use Linear Regression

- Suitable for understanding relationships between variables
- Provides interpretable coefficients to measure the impact of each factor

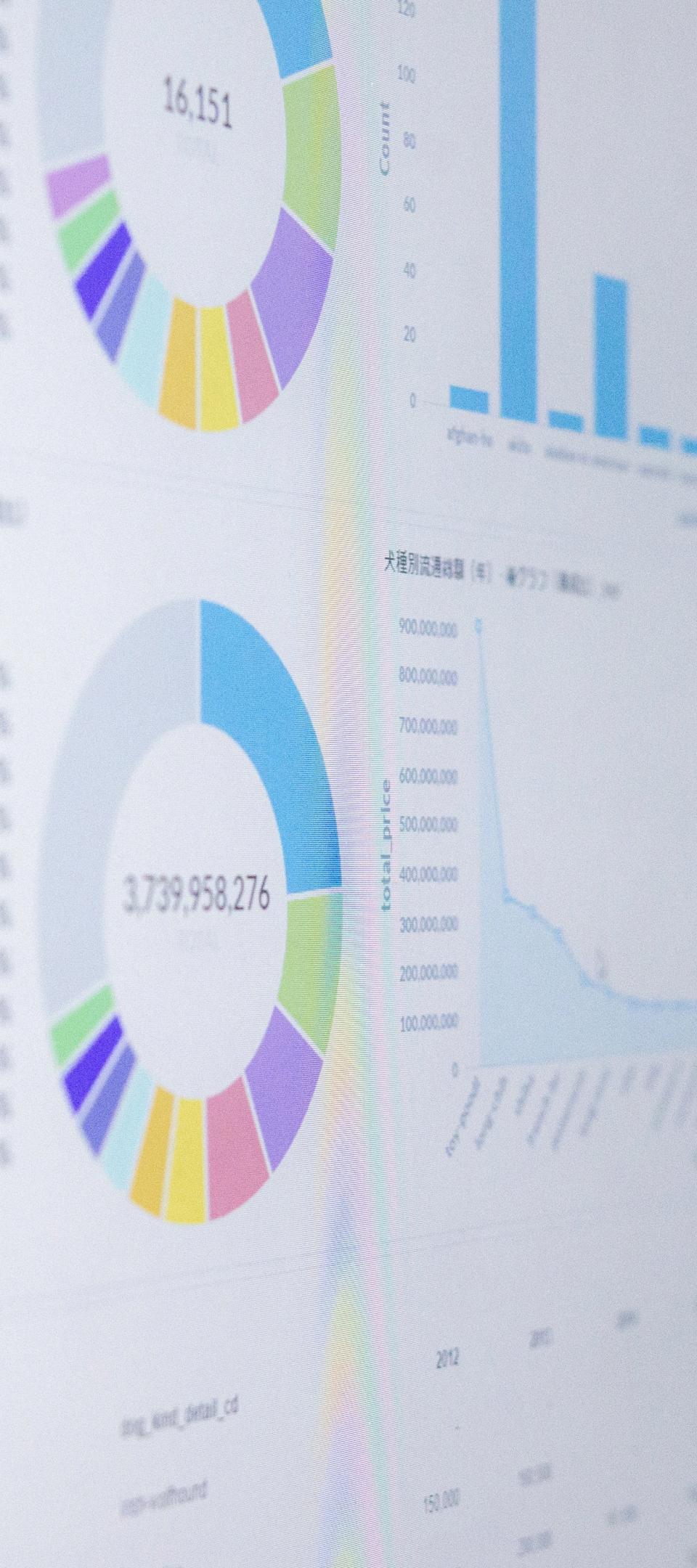
Why Linear Regression?

- It clearly shows which variables (study habits) influence performance the most
- It is simple and interpretable
- Helps visualize trends (e.g., more study hours = higher scores?)
- Good baseline before trying more complex models



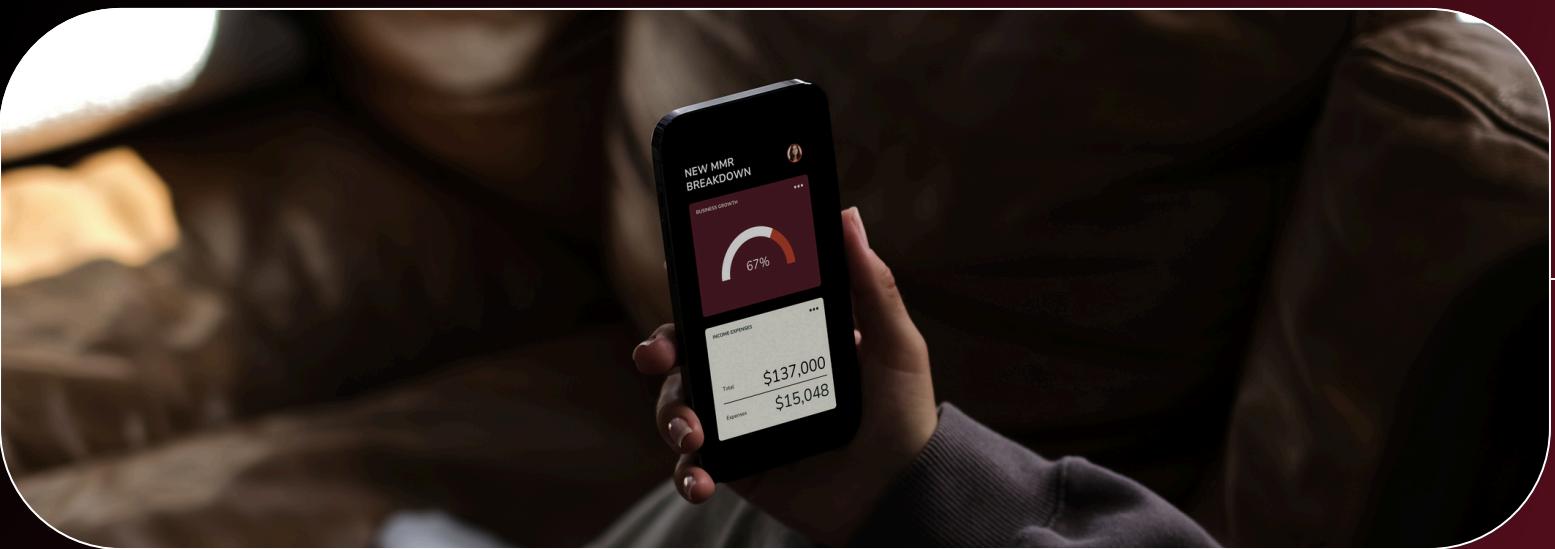
OUTCOME

- Predict exam scores for individual students based on their habits
- Identify which study habits are most impactful
- Offer personalized advice to students to optimize learning strategies



Challenges in Data Analysis

Overcoming Common Issues



Thankyou
