Predicting Marks Based on Study Hours

This is a simple **Machine Learning mini-project** that predicts student marks based on the number of hours they studied. It uses **Linear Regression** from the scikit-learn library and is built using **Python**, pandas, numpy, and matplotlib.

Dataset Used(from Kaggle)

The dataset is a simple CSV file with two columns:

- **Hours**: Number of hours a student studied
- **Scores**: Marks obtained

Tools and Libraries

- Python 🐍
- pandas
- numpy
- matplotlib
- scikit-learn

Steps Performed

1. **Load the Dataset** using pandas
2. **Split the Dataset** into training and test sets
3. **Train** a Linear Regression model
4. **Predict** student marks on the test data
5. **Evaluate** the model using Mean Squared Error and R^2 Score
6. **Visualize** the regression line

Project Goals

- Learn basic model training
- Understand regression concepts
- Practice real-world ML project flow
- Use GoogleColab and GitHub