

1. Why did you choose this dataset?

This dataset was chosen to see if the number of years a student spends playing (sports, games, or music) affects their grades. It also includes other factors like school, gender, and parents' education, which might also influence grades.

2. What is your conclusion upon conducting linear regression on this dataset?

After doing linear regression, we can check if Playing Years has a strong effect on Grade.

- If there is a strong connection, it means playing years impact grades.
- If the connection is weak, then playing years do not affect grades much.
- The scatter plot shows how well the model predicts grades. If the predicted grades (red) are close to the actual grades (blue), the model is good. If they are far apart, the model is not very accurate.

3. How relevant is linear regression today?

Linear regression is still useful today because it helps find patterns and make predictions. It is simple and easy to understand, which makes it popular in education, business, and science. While more advanced methods exist, linear regression is still a great tool for basic analysis.