Regression-1

Assignment Questions





Assignment



- Q1. Explain the difference between simple linear regression and multiple linear regression. Provide an example of each.
- Q2. Discuss the assumptions of linear regression. How can you check whether these assumptions hold in a given dataset?
- Q3. How do you interpret the slope and intercept in a linear regression model? Provide an example using a real-world scenario.
- Q4. Explain the concept of gradient descent. How is it used in machine learning?
- Q5. Describe the multiple linear regression model. How does it differ from simple linear regression?
- Q6. Explain the concept of multicollinearity in multiple linear regression. How can you detect and address this issue?
- Q7. Describe the polynomial regression model. How is it different from linear regression?
- Q8. What are the advantages and disadvantages of polynomial regression compared to linear regression? In what situations would you prefer to use polynomial regression?

Note: Create your assignment in Jupyter notebook and upload it to GitHub & share that github repository link through your dashboard. Make sure the repository is public.