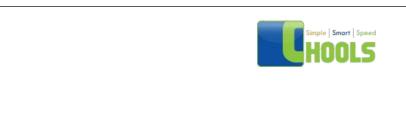


## DATA SCIENCE ASSIGNMENT

**Day - 27:** 

- 1. If the correlation coefficient between the dependent and independent variables in a simple linear regression model is -0.85, what does this indicate?
- 2.In a simple linear regression equation Y=2X+3, what does the coefficient 2 represent?
- 3. What is the primary purpose of the intercept term in a simple linear regression equation?
- 4.write a python function to split into training and testing set and perform simple linear regression on the training set.
- 5. Write a Python function to calculate the slope and intercept of a simple linear regression model using the method of least squares.

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