Week 6: Assignment 6 (Non Graded)

Assignment not submitted

Note : This assignment is only for practice purpose and it will not be counted towards the Final score

1) The Pearson correlation coefficient for the given data is: - **1 point**

X	5.1	4.9	4.7	4.6	5.0
Y	3.5	3.0	3.2	3.1	3.6

○ -0.68

○ 0.68

○ 1.00

○ 0.00

2) Which of the following statements is/are NOT TRUE? **1 point**
I.   Spearman rank correlation can be used for ordinal variables
II.   Pearson's correlation takes a value between 0 to +1
III.   A pair of observations (x_1, y_1) and (x_2, y_2) that follow the property of $x_1 > x_2, y_1 > y_2$ or $x_1 < x_2, y_1 < y_2$ are called concordant pairs

○ I

○ I and III

○ III

○ II and III

○ I, II

3) The equation for simple linear regression equation is represented as $y_i = \beta_0 + \beta_1 x_i$. The term **1 point**
β_1 denotes:-

○ Predicted response

○ Estimated slope

○ Estimated intercept

○ Error

4) In regression analysis, which of the following R^2 values indicate a strong linear relationship? **1 point**

○ 0.90

○ 0.00

○ -0.86

○ 0.30

5) The condition resulting in non-uniform error variance in regression analysis is termed as:- **1 point**

○ Homoscedasticity

○ Heteroscedasticity

Check Answers and Submit