Answer Submitted.







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NPTEL (https://swayam.gov.in/explorer?ncCode=NPTEL) » Data Science for Engineers (course)



Course outline

How does an NPTEL online course work?

Setup Guide

Pre Course Material

Week 0

Week 1

Week 2

Week 3

Week 4

Week 5

Week 6

Module:
Predictive
Modelling
(unit?
unit=73&lesson=74)

LinearRegression

Week 6: Assignment 6 (Non Graded)

Your last recorded submission was on 2021-09-07, 08:15 IST

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

01.00

0.00

Yes, the answer is correct.

Score: 1

Accepted Answers:

0.68

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

 \bigcirc 1

O I and III

(unit? unit=73&lesson=75)	III○ II and III				
Model Assessment					
(unit? unit=73&lesson=76)	No, the answer is incorrect. Score: 0				
Diagnostics to Improve Linear Model Fit (unit? unit=73&lesson=77)	Accepted Answers: II and III 3) The equation for simple linear regression equation is represented as $y_i=eta_0+eta_1x_i$. The term $oldsymbol{eta_1}$ denotes:-	1 point			
Simple Linear Regression	O Predicted response				
	© Estimated slope				
Model Building (unit?	© Estimated intercept				
unit=73&lesson=78)	© Error				
Simple Linear	Yes, the answer is correct. Score: 1				
Regression Model Assessment (unit? unit=73&lesson=79)	Accepted Answers: Estimated slope				
	4) In regression analysis, which of the following \mathbb{R}^2 values indicate a strong linear relationship?				
Simple Linear	○ 0.90				
Regression Model	0.00				
Assessment (○-0.86				
Continued) (unit?	○ 0.30				
unit=73&lesson=80)	No, the answer is incorrect. Score: 0				
Muliple Linear Regression	Accepted Answers: 0.90				
(unit? unit=73&lesson=81)	5) The condition resulting in non-uniform error variance in regression analysis is	1 point			
O Dataset (unit?	termed as:-	-			
unit=73&lesson=82)	OHomoscedasticity				
○ FAQ (unit? unit=73&lesson=83)	Heteroscedasticity				
○ Week 6	Yes, the answer is correct. Score: 1				
Feedback Form: Data Science for Engineers	Accepted Answers: Heteroscedasticity				
(unit? unit=73&lesson=84)	Check Answers and Submit				
Practice: Week 6:	Your score is: 3/5				
Assignment 6 (Non Graded) (assessment? name=125)					

Quiz: Week 6: Assignment 6 (assessment? name=137)

• Week 6: Solution (unit? unit=73&lesson=144)

Week 7

Week 8

Text Transcripts

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