X

Unit 8 - Week 6

Course outline

How does an NPTEL online course work?

Week 0

Week 1

Week 2

Week 3

Week 4

Week 5

Week 6

- Module : Predictive Modelling (unit?unit=43&lesson=44)
- Linear Regression (unit?unit=43&lesson=45)
- Model Assessment (unit?unit=43&lesson=46)

Practice Assignment 6

The due date for submitting this assignment has passed. Due on 2020-03-11, 23:59 IST.
As per our records you have not submitted this assignment.

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

1) The higher the value of R^2 for a model, the observations are more closely grouped around: ***1 point***

- the origin
- the best fit line
- average values of the predicted variable
- the intercept

No, the answer is incorrect.
Score: 0
Accepted Answers:
the best fit line

2) The standard assumption of ordinary least squares regression is that: ***1 point***

- there are no errors in measurements of independent and dependent variables
- there are errors only in measurement of independent variable
- there are errors only in measurement of dependent variable
- there are errors both in measurements of independent and dependent variables

No, the answer is incorrect.
Score: 0
Accepted Answers:
there are errors only in measurement of dependent variable

3) The relationship between the dependent and independent variables in a simple linear regression is described by ***1 point***

Diagnostics to Improve Linear Model Fit (unit?unit=43&lesson=47)
Simple Linear Regression Model Building (unit?unit=43&lesson=48)
Simple Linear Regression Model Assessment (unit?unit=43&lesson=49)
Simple Linear Regression Model Assessment (Continued) (unit?unit=43&lesson=50)
Muliple Linear Regression (unit?unit=43&lesson=51)
Dataset (unit?unit=43&lesson=52)
FAQ (unit?unit=43&lesson=53)
Quiz : Practice Assignment 6 (assessment?name=95)
Quiz : Assignment 6 (assessment?name=119)
Week 6 Feedback (unit?unit=43&lesson=123)
Solution - Assignment 6 (unit?unit=43&lesson=128)
Week 7
Week 8
Text Transcripts
Download Videos

- F-statistic
- predicted value and error
- standardised residuals
- coefficient and intercept

No, the answer is incorrect.
Score: 0
Accepted Answers:
coefficient and intercept

4) The Pearson's correlation coefficient between two parameters is calculated to be 0.10. What can be inferred from the correlation coefficient regarding the relationship between the two parameters? ***1 point***

- There exists a weak negative relationship between two variables
- There exists a strong negative relationship between two variables
- There exists a weak positive relationship between two variables
- Correlation coefficient cannot possess this value

No, the answer is incorrect.
Score: 0
Accepted Answers:
There exists a weak positive relationship between two variables

5) Standardised residuals have:- ***1 point***

- binomial distribution with n degrees of freedom
- t distribution with n-2 degrees of freedom
- log-normal distribution with n-2 degrees of freedom
- chi-square distribution with n degrees of freedom

No, the answer is incorrect.
Score: 0
Accepted Answers:
t distribution with n-2 degrees of freedom