



Announcements

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**Progress** Mentor

## Unit 8 - Week 7

How does an NPTEL online

Course outline

course work?

Week 1

Week 2

Week 3

Week 4

Week 5

Week 6

Week 7

Analysis

Analysis - II

MODEL - I

MODEL-II

regression

Week 8

Week 9

Week 10

Week 11

Week 12

Feedback

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Categorical variable

Important data Files

Quiz : Assignment 7

Solution: Assignment 7

Estimation, Prediction of

Estimation, Prediction of

Regression Model Residual

Regression Model Residual

MULTIPLE REGRESSION

MULTIPLE REGRESSION

NPTEL » Data Analytics with Python

regression analysis, the model in the form $y = \beta 0 + \beta 1 \times + \epsilon$ is called regression equation correlation equation estimated regression equation regression model the answer is incorrect. So the confidence interval is an interval which is an estimate of the mean value of the dependent variable of the standard deviation value of the independent variable of the standard deviation value of the independent variable of the standard deviation value of the independent variable of the standard deviation value of the independent variable of the standard deviation value of the independent variable of the standard deviation value of the independent variable of the standard deviation value of the independent variable of the dependent variable	
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e: 0 pted Answers:	
/hich plot is used to find whether two sets of data come from the same distribution -	
Probability plots	
Quantile-Quantile plots	
Residual plots	
Scatter plot	
he_answer is incorrect.	
e: 0 pted Answers:	
tile-Quantile plots	
nova_lm library is used -	
To test the significance of the model	
To do ANOVA analysis with a linear OLS Model	
To show mean square as well as the standard error	
All of the above	
he answer is incorrect.	
e: 0 pted Answers:	
the above	
hich test is used to determine whether a significant relationship exists between the dependent variable and the regression model-	set of all the independent variable
-test	

7) The overall significance of the regression model and individual independent variable's significance can be determined using the tests -

## F - test and z - test respectively Both (b) and (c) No, the answer is incorrect. Score: 0 Accepted Answers: F – test and t-test respectively

t-test and F - test respectively

F - test and t-test respectively

No, the answer is incorrect.

Accepted Answers:

Score: 0

F – test

Some of the independent variables are categorical data The dependent variable is categorical data Both independent and dependent variable may have a categorical data value

The dependent and independent variable must be a numerical data value No, the answer is incorrect. Score: 0 Accepted Answers: Some of the independent variables are categorical data

8) The purpose of using a dummy variable in the regression model is -

9) Which is the correct command to get dummy variable if pandas library is imported as pandas pandas.get\_dummies(filename[column\_name]) pd.get\_dummies[filename(column\_name)]

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

pandas.get\_dummies(filename[column\_name])

pandas.get\_dummies[filename(column\_name)]

pd.get\_dummies(filename[column\_name])

 Same for all independent variables Same for the response variable

Different for all independent variables

Different for the response variable

10) The variance of the error term is-

Score: 0 Accepted Answers: Same for all independent variables

No, the answer is incorrect.

11) Multiple regression equation generates which type of graph-

A point

No, the answer is incorrect. Score: 0

A plane or surface

None of the above

A plane or surface

A line

Accepted Answers:

1 point

1 point

1 point

1 point

1 point

10 points