Unit 8 - Week 7

Assignment 7

The due date for submitting this assignment has passed.
As per our records you have not submitted this assignment.

Due on 2020-03-18, 23:59 IST.

1)

2) In regression analysis, the model in the form $y = \beta_0 + \beta_1 x + \varepsilon$ is called   **1 point**

- ○ regression equation
- ○ correlation equation
- ○ estimated regression equation
- ○ regression model

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

3) The confidence interval is an interval which is an estimate of -   **1 point**

- ○ The mean value of the dependent variable
- ○ The standard deviation value of the dependent variable
- ○ The mean value of the independent variable
- ○ The standard deviation value of the independent variable

No, the answer is incorrect.
Score: 0
Accepted Answers:
The mean value of the dependent variable

4) Which plot is used to find whether two sets of data come from the same distribution –   **1 point**

- ○ Probability plots
- ○ Quantile-Quantile plots
- ○ Residual plots
- ○ Scatter plot

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

5) anova_lm library is used –   **1 point**

- ○ 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

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

6) Which test is used to determine whether a significant relationship exists between the dependent variable and the set of all the independent variable in   **1 point**
the linear regression model-

- ○ t-test
- ○ F – test
- ○ Z – test
- ○ None of the above

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

7) The overall significance of the regression model and individual independent variable's significance can be determined using the tests –   **1 point**

- ○ t-test and F – test respectively
- ○ F – test and t-test respectively
- ○ 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

8) The purpose of using a dummy variable in the regression model is –   **1 point**

- ○ 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

9) Which is the correct command to get dummy variable if pandas library is imported as pandas   **1 point**

- ○ pandas.get_dummies(filename[column_name])
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- ○ pd.get_dummies(filename[column_name])

No, the answer is incorrect.
Score: 0
Accepted Answers:
pandas.get_dummies(filename[column_name])

10) The variance of the error term is-   **1 point**

- ○ Same for all independent variables
- ○ Same for the response variable
- ○ Different for all independent variables
- ○ Different for the response variable

No, the answer is incorrect.
Score: 0
Accepted Answers:
Same for all independent variables

11) Multiple regression equation generates which type of graph-   **1 point**

- ○ A point
- ○ A line
- ○ A plane or surface
- ○ None of the above

No, the answer is incorrect.
Score: 0
Accepted Answers:
A plane or surface

10 points