

Data Science /Machine Learning Quiz - Set 4

This test intends to check your knowledge on data science & machine learning algorithms. It touches upon the topic of multiple regression model.

Q: The distance between the best fit line and observed value can be called as

- ☐ Residual
- ☐ Error
- ☐ Both of the above

Q: The residuals from the best fit line always add up to 0

- ☐ True
- ☐ False

Q: The goal of the linear regression model is to create a model that _____ the sum of squares of residuals or errors (SSE)

- ☒ Minimizes
- ☐ Maximizes

Q: The best-fit regression line must pass through the centroid

- ☒ True
- ☐ False

Q: The regression line could be considered as good fit if

- ☐ Sum of squared errors is as small as possible
- ☐ Sum of squared regression is as large as possible
- ☒ Both of the above

Q: If two predictor variables are multicollinear, both of them must be used for regression analysis

- ☐ True
- ☒ False

Score Card

Total no. of questions: 0

No. of questions attempted: 9

No. of correct answers: 9

Overall score: 9/0

Show Score

Show Answers

Q: In regression model, the sum of squares for regression is which of the following?

- ☐ Squared difference between observed value of dependent variable and the estimated value
- ☒ Squared difference between estimated value of dependent variable and the mean value
- ☐ Squared difference between observed value of dependent variable and the mean value

Q: In regression model, the sum of squares for error is which of the following?

- ☒ Squared difference between observed value of dependent variable and the estimate value
- ☐ Squared difference between estimated value of dependent variable and the mean value
- ☐ Squared difference between observed value of dependent variable and the mean value

Q: In regression model, the sum of squares total is which of the following?

- ☐ Squared difference between observed value of dependent variable and the estimated value
- ☐ Squared difference between estimated value of dependent variable and the mean value
- ☒ Squared difference between observed value of dependent variable and the mean value

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