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## Linear Regression Quiz

Type : Graded Quiz

Attempts : 1/1

Questions : 10 Time : 45m

**Due Date** : Dec 13, 11:59 PM

Your Score : 7/10

Instructions

## **Attempt History**

Date	Attempt	Marks

Dec 13, 9:17 PM 1 7 Hide answers

Question No: 1 (Correct Answer

Multi-collinearity happens when

One or more predictors have high correlation among them

You Selected

The response is highly correlated with the predictors

The residuals are correlated among themselves

The observed values are not independent

Question No: 2	Correct Answer	
Which one of the statements is true regard	arding residuals in regression analysis?	
Mean of residuals is always zero		You Selected
Mean of residuals is always less th	nan zero	
Mean of residuals is always greate	er than zero	
There is no such rule for residuals		
Question No: 3 Which of the following is a measure of m	Correct Answer nulticollinearity?	
● VIF		You Selected
O R Squared		
○ MSE		
Regression Residuals		
Question No: 4  To test the linear relationship of y(dependent following plot is best suited?	Correct Answer  Indent) and x(independent) continuous vari	ables, which of the
Scatter plot		You Selected
O Bar chart		
O Histograms		

Question No: 5 Which of the following is an assumption fo	Incorrect Answer r linear regression?		
O Predictors must be continuous			
Response is linearly dependent on the	ne estimated parameters.		
Response must be continuous			
Error terms must not have constant	variance	You Select	cted

## Question No: 6

Correct Answer

All large cities are concerned about parking space and pollution due to the number of private vehicles. A survey found the information provided below. Which of the predictor causes the maximum change in the 'number of vehicles' (dependent variable) per unit increase?

Predictor	Coeffi cients
Intercept	10022 2.6
Gas Price	-689.5 23
Population of city	0.055
Monthly income of riders	-1.301
Average parking rates per month	152.4 56

Note: All the predictor (independent) variables have been scaled.

Gas price		You Selected
O - 110 p. 110		
Population		
Monthly income		
Average parking rate		
Question No: 7	Correct Answer	
Question 1 to 7		
Market price (MP) of a house dep	pends on its area (square feet) and age (yea d as	rs). From a sample data, the
	d as	rs). From a sample data, the
Market price (MP) of a house depregression equation is determined MP = 57.35 + 0.0177 * Area – 0.6 Two houses are on the market: A	d as 666 * Age (area = 1682 sq feet, 20-year-old) and B (al	
Market price (MP) of a house depregression equation is determined MP = 57.35 + 0.0177 * Area – 0.6 Two houses are on the market: A	d as 666 * Age (area = 1682 sq feet, 20-year-old) and B (al	
Market price (MP) of a house depregression equation is determined MP = 57.35 + 0.0177 * Area – 0.6 Two houses are on the market: A old). Which of the following stater	d as 666 * Age (area = 1682 sq feet, 20-year-old) and B (and ments do you agree with?	rea = 1856 sq feet, 22-year-
Market price (MP) of a house depregression equation is determined MP = 57.35 + 0.0177 * Area – 0.6 Two houses are on the market: A old). Which of the following stater  A is less expensive than B	d as 666 * Age (area = 1682 sq feet, 20-year-old) and B (and ments do you agree with?	rea = 1856 sq feet, 22-year-

Y = 30 - 0.7 HP

If car A has HP = 15 and car B has HP = 20, then

Car A is expected to have	e 3.5 miles per gallon more than Car B	You Selected
Car A is expected to have	e 3.5 miles per gallon less than Car B	
Car A is expected to have	e 0.7 miles per gallon less than Car B	
Car A is expected to have	e 0.7 miles per gallon more than Car B	
Question No: 9	(Incorrect Answer)	
To answer the below question,	do the following:	
Load the dataset ThreeCars-1.  Do not scale the data  Do not split the data  Make a Linear Regression mod	del with 'Price' as the target variable	
What is the value of R Squared	<b>1</b> ?	
Note: Please do not pre-proces	ss the data in any way before fitting the linear reg	gression model.
0.78		
<b>O</b> 0.81		You Selected
0.74		
0.70		

(Incorrect Answer)

Question No: 10

o not scale t	the data		
not split th			
		n model with 'Price' as the target variable	
hat is the va	alue of Price	e for these input parameters?	
/ariable	Value		
\ge	3		
/lileage	43		
Porsche	1		
laguar	0		
BMW	0		
ote: Please		process the data in any way before fitting the	linear regression model.
		process the data in any way before fitting the	linear regression model.  You Selected
49.222		process the data in any way before fitting the	
<ul><li>49.222</li><li>50.190</li></ul>		process the data in any way before fitting the	
<ul><li>49.222</li><li>50.190</li><li>48.221</li></ul>		process the data in any way before fitting the	
<ul><li>49.222</li><li>50.190</li><li>48.221</li></ul>		process the data in any way before fitting the	

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