## PROJECT SUBMITTED BY ABHISHEK AGNIHOTRI

## **BATCH NUMBER: DS2309**

- 21 When implementing linear regression of some dependent variable y on the set of independent variables  $\mathbf{x} = (x_1, ..., x_r)$ , where r is the number of predictors, which of the following statements will be true?
- a)  $\beta_0$ ,  $\beta_1$ , ...,  $\beta_r$  are the regression coefficients.
- b) Linear regression is about determining the best predicted weights by using the method of ordinary least squares.- CORRECT ANSWER
- c) E is the random interval

- d) Both and b
- 22) What indicates that you have a perfect fit in linear regression?
- a) The value  $R^2 < 1$ , which corresponds to SSR = 0
- b) The value  $R^2$  = 0, which corresponds to SSR = 1
- c) The value  $R^2 > 0$ , which corresponds to SSR = 1
- d) The value  $R^2 = 1$ , which corresponds to SSR = 0 CORRECT ANSWER
- 23) In simple linear regression, the value of what shows the point where the estimated regression line crosses the y axis?
- a) Y

## b) B0 CORRECT ANSWER

- c) B1
- d) F
- 24) Check out these four linear regression plots: Which one represents an underfitted model?
- a) The bottom-left plot CORRECT ANSWER
- b) The top-right plot
- c) The bottom-right plot
- d) The top-left plot
- 25) There are five basic steps when you're implementing linear regression:
- a. Check the results of model fitting to know whether the model is satisfactory.
- b. Provide data to work with, and eventually do appropriate transformations.
- c. Apply the model for predictions.
- d. Import the packages and classes that you need.
- e. Create a regression model and fit it with existing data.

However, those steps are cui	rently listed in the	wrong ord	er. What's the correc	t order?
a) e, c, a, b, d				
b) e, d, b, a, c				
c) d, e, c, b, a <u>CORRECT ANS</u>	<u>SWER</u>			
d) d, b, e, a, c				
26 ) Which of the following a	re optional parame	eters to Lin	earRegression in sciki	t-learn?
a) Fit				
b) fit_intercept				
c) normalize CORRECT AN	ISWER: B,C,D,E			
d) copy_X				
e) n_jobs				
f) reshape				
27) While working with scikit of inputs to include nonlinea		_	ssion do you need to	transform the array
a) Multiple linear regression				
b) Simple linear regression				
c) Polynomial regression <u>CO</u>	RRECT ANSWER			
28) You should choose statsr	nodels over scikit-l	earn when	:	
A)You want graphical repres	sentations of your	data. <u>COR</u>	RECT ANSWER	
b) You're working with nonlin	near terms.			
c) You need more detailed re	esults.			
d) You need to include option	nal parameters.			
29) is a fundament comprehensive mathematicatransforms, and more. It provides	l functions, randor	n number ខ្	generators, linear alge	ebra routines, Fourie
a) Pandas	b) <b>Nun</b>	npy <u>CO</u> F	RRECT ANSWER	
c) Statsmodel	d) scipy	1		
30 ) is a Python d interface for drawing attracti understand your data. It inte	ve and informative	statistical	graphics that allow ye	<del>-</del>
a) Bokeh	b)	Seaborn	CORRECT ANSWER	<u>R</u>

d) Dash

c) Matplotlib

41) Among the following identify the one in which dimensionality reduction reduces.							
a) Performance	b) statistics	c) Entro	рру				
d) Collinearity CORRECT ANSWER							
42) Which of the follow	ving machine lea	rning algorithm is	s based upon the idea of bagging	<b>;</b> ?			
a) Decision Tree	b <b>) Ran</b> o	dom Forest <u>CORI</u>	RECT ANSWER				
c) Classfication	d) SVM						
43) Choose a disadvant	age of decision t	rees among the f	following.				
a) Decision tree robust	to outliers		b) Factor analysis				
c) Decision Tree are pro	one to overfit <u>Co</u>	ORRECT ANSWE	<u> </u>				
d) all of the above							
44) What is the term known as on which the machine learning algorithms build a model based on sample data?							
a) Data Training	b) Sample Data						
c) Training data	CORRECT ANS	<u>SWER</u>					
d) None of the above							
45) Which of the following machine learning techniques helps in detecting the outliers in data?							
a) Clustering	b) Classification	ı					
c) Anamoly detection <u>(</u>	CORRECT ANSV	<u>VER</u>	d) All of the above				
46) Identify the incorrect numerical functions in the various function representation of machine learning.							
a) Support Vector	b) Regression						
c) Case based <u>CORREC</u>	CT ANSWER	d) Class	ification				
47) Analysis of ML algo	rithm needs						
a) Statistical learning th	neory	b) Computation	al learning theory				
c) None of the above		d) Both a and b	CORRECT ANSWER				
48) Identify the difficulties with the k-nearest neighbour algorithm.							
a) Curse of dimensionality							
b) Calculate the distand	ce of test case fo	or all training cas	es <u>CORRECT ANSWER</u>				
c) Both a and b	d) Non	ie					

49) The total types of the layer in radial basis function neural networks is								
a) 1	b) 2	c) 3	d) 4	{Don't Know}				
50 Which of the following is not a supervised learning								
a) PCA <u>CORRECT ANSWER</u>								
b) Naïvo	e bayes		c) Lir	near regression	d) KMeans			