FLIP ROBO

In Q1 to Q11, only one option

is correct, choose the correct option:

1.	Which of the following methods do we use to find the (x) Least Square Error C) Logarithmic Loss	best fit line for data in Linear Regression? B) Maximum Likelihood D) Both A and B		
	Which of the following statement is true about outliers A) Linear regression is sensitive to outliers outliers	in linear regression? B) linear regression is not sensitive to		
	C) Can't say	D) none of these		
3.	A line falls from left to right if a slope isA) Positive	?		
	C) Zero	D) Undefined		
4.	Which of the following will have symmetric relation bindependent variable?	etween dependent variable and		
	A) Regression	Ø) Correlation		
	C) Both of them	D) None of these		
5.	Which of the following is the reason for over fitting cor	ndition?		
	A) High bias and high variance	B) Low bias and low variance		
ν	C) Low bias and high variance	D) none of these		
6.	If output involves label then that model is called as:			
	A) Descriptive model	β		
	C) Reinforcement learning	D) All of the above		
7.	Lasso and Ridge regression techniques belong to	?		
	A) Cross validation	B) Removing outliers		
	C) SMOTE	☑) Regularization		
8.	To overcome with imbalance dataset which technique can be used?			
	A) Cross validation	Regularization		
	C) Kernel	D) SMOTE		
9.	The AUC Receiver Operator Characteristic (AUCRO	DC) curve is an evaluation metric for		
	binary classification problems. It usesto m			
V	/A) TPR and FPR	B) Sensitivity and precision		
	C) Sensitivity and Specificity	D) Recall and precision		
	 In AUC Receiver Operator Characteristic (AUCROC the curve should be less. 	C) curve for the better model area under		
V	A) True B) False			
	. Pick the feature extraction from below: (A) Construction bag of words from a email B) Apply PCA to project high dimensional data C) Removing stop words (D) Forward selection			
212	√ 2, more than one options are correct, choose all the 1 in the correct of	ne correct options:		
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In Q

- 12. Which of the following is true about Normal Equation used to compute the coefficient of the Linear Regression?
- √ A) We don't have to choose the learning rate.
- ✓B) It becomes slow when number of features is very large.
- C) We need to iterate.

D) It does not make use of dependent variable.

13. Q13 and Q15 are subjective answer type questions, Answer them briefly.

14. Explain the term regularization?

Ans- Regularization is a technique used to reduce errors by fitting the function appropriately on the given training set and avoiding overfitting.

The commonly used regularization techniques are :-

- 1. Lasso Regularization L1 Regularization
- 2. Ridge Regularization L2 Regularization
- 3. Elastic Net Regularization L1 and L2 Regularization
- 15. Which algorithms are used for regularization?

Ans :- Ridge Regression (L2 Norm) Lasso (L1 Norm) Dropout.

16. Explain the term error present in linear regression equation?

Ans :- It is included to show that the model does not fully represent the actual relationship between the independent variables and the dependent variables .

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