

## **MACHINE LEARNING**

## In Q1 to Q11, only one option is correct, choose the correct option:

1.	Which of the following methods do we use to A) Least Square Error C) Logarithmic Loss	o find the best fit line for data in Linear Regression? B) Maximum Likelihood D) Both A and B
2.	Which of the following statement is true about A) Linear regression is sensitive to outliers C) Can't say	t outliers in linear regression? B) linear regression is not sensitive to outliers D) none of these
3.	A line falls from left to right if a slope is A) Positive C) Zero	? B) Negative D) Undefined
4.	Which of the following will have symmetric revariable?  A) Regression  C) Both of them	elation between dependent variable and independent  B) Correlation  D) None of these
5.	Which of the following is the reason for over fA) High bias and high variance C) Low bias and high variance	,
6.	If output involves label then that model is ca A) Descriptive model C) Reinforcement learning	alled as:  B) Predictive modal  D) All of the above
7.	Lasso and Ridge regression techniques bell A) Cross validation C) SMOTE	ong to?  B) Removing outliers  D) Regularization
8.	To overcome with imbalance dataset which A) Cross validation C) Kernel	technique can be used? B) Regularization D) SMOTE
9.	The AUC Receiver Operator Characteristic classification problems. It uses to math A) TPR and FPR C) Sensitivity and Specificity	B) Sensitivity and precision
10	<ul> <li>In AUC Receiver Operator Characteristic (A curve should be less.</li> <li>A) True</li> </ul>	UCROC) curve for the better model area under the  B) False
11	11. 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	
In Q12, more than one options are correct, choose all the correct options:		
<ul> <li>12. Which of the following is true about Normal Equation used to compute the coefficient of the Linear Regression?</li> <li>A) We don't have to choose the learning rate.</li> <li>B) It becomes slow when number of features is very large.</li> <li>C) We need to iterate.</li> <li>D) It does not make use of dependent variable.</li> </ul>		



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

- 13. Explain the term regularization?
- 14. Which particular algorithms are used for regularization?
- 15. Explain the term error present in linear regression equation?