

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	find the best fit line for data in Linear Regression? B) Maximum Likelihood D) Both A and B
Ans: D)	Both A and B.	_,,
	Which of the following statement is true about A) Linear regression is sensitive to outliers C) Can't say Linear regression is sensitive to outliers.	outliers in linear regression? B) linear regression is not sensitive to outliers D) none of these
	A line falls from left to right if a slope is A) Positive C) Zero	? B) Negative D) Undefined
Ans: B) Negative.	
	Which of the following will have symmetric revariable? A) Regression C) Both of them Correlation.	elation between dependent variable and independen B) Correlation D) None of these
	Which of the following is the reason for over fi A) High bias and high variance C) Low bias and high variance) Low bias and high variance.	tting condition? B) Low bias and low variance D) none of these
	If output involves label then that model is ca A) Descriptive model C) Reinforcement learning Predictive model.	lled as: B) Predictive modal D) All of the above
	Lasso and Ridge regression techniques below A) Cross validation C) SMOTE Regularization	ong to? B) Removing outliers D) Regularization
	To overcome with imbalance dataset which A) Cross validation C) Kernel SMOTE	technique can be used? B) Regularization D) SMOTE
	The AUC Receiver Operator Characteristic classification problems. It usesto match A) TPR and FPR C) Sensitivity and Specificity TPR and FPR	(AUCROC) curve is an evaluation metric for binary ake graph? B) Sensitivity and precision D) Recall and precision
10		(AUCROC) curve is an evaluation metric for binary ake graph? B) Sensitivity and precision D) Recall and precision



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- 11. In AUC Receiver Operator Characteristic (AUCROC) curve for the better model area under the curve should be less.
 - A) True B) False

Ans: B) False

- 12. 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
- B) Apply PCA to project high dimensional data

In Q12, more than one options are correct, choose all the correct options:

- 13. 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.

Ans: A and B



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

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