

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 Answer: - D) Both A and B	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 Answer: - A) Linear regression is sensitive to	B) linear regression is not sensitive to outliersD) none of these
3.	A line falls from left to right if a slope is A) Positive C) Zero Answer : - B) Negative	? B) Negative D) Undefined
4.	Which of the following will have symmetric revariable? A) Regression C) Both of them Answer: - 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 fi A) High bias and high variance C) Low bias and high variance Answer: - C) Low bias and high variance	tting condition? B) Low bias and low variance D) none of these
6.	If output involves label then that model is ca A) Descriptive model C) Reinforcement learning Answer: - D) All of the above	lled as: B) Predictive modal D) All of the above
7.	Lasso and Ridge regression techniques below A) Cross validation C) SMOTE Answer: - D) Regularization	ong to? B) Removing outliers D) Regularization
8.	To overcome with imbalance dataset which A) Cross validation C) Kernel Answer: - D) SMOTE	·
9.	The AUC Receiver Operator Characteristic (classification problems. It usesto ma A) TPR and FPR C) Sensitivity and Specificity Answer: - A) TPR and FPR	(AUCROC) curve is an evaluation metric for binary ke graph? B) Sensitivity and precision D) Recall and precision
10.	In AUC Receiver Operator Characteristic (A curve should be less. A) True Answer: - B) False	UCROC) curve for the better model area under the B) False
11.	Pick the feature extraction from below: A) Construction bag of words from a email B) Apply PCA to project high dimensional da	ıta



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- C) Removing stop words
- D) Forward selection

Answer: - A) Construction bag of words from a email

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

- 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.

Answer: - A) We don't have to choose the learning rate &

D) it does not make use of dependent variable



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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?