

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: A) Least Square Error	
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
	Ans: A) Linear regression is sensitive to outliers	
3.	A line falls from left to right if a slope is A) Positive C) Zero	? B) Negative D) Undefined
	Ans: B) Negative	
4.	Which of the following will have symmetric relation between dependent variable and independent variable?	
	A) Regression C) Both of them	B) Correlation D) None of these
	c) Both of them	b) None of these
	Ans: B) Correlation	
5.	Which of the following is the reason for over fi A) High bias and high variance C) Low bias and high variance	tting condition? B) Low bias and low variance D) none of these
	Ans: C) Low bias and high variance	
6.	If output involves label then that model is called as:	
	A) Descriptive model	B) Predictive modal
	C) Reinforcement learning	D) All of the above
	Ans: B) Predictive modal	
1.	Lasso and Ridge regression techniques bell A) Cross validation	ong to? B) Removing outliers
	C) SMOTE	D) Regularization
	Ans:	
8.	To overcome with imbalance dataset which technique can be used?	
	A) Cross validation	B) Regularization
	C) Kernel	D) SMOTE
	Ans: A) Cross validation	
9.	The AUC Receiver Operator Characteristic (AUCROC) curve is an evaluation metric for binary classification problems. It usesto make graph? A) TPR and FPR B) Sensitivity and precision C) Sensitivity and Specificity D) Recall and precision	
	C) Sensitivity and Specificity	D) Recall and precision



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Ans: A) TPR and FPR

10. 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

- 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

Ans: Removing stop words

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.

Ans: A, B



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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?