

MACHINE LEARNING

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

D) It does not make use of dependent variable.

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
2.	Which of the following statement is true about A) Linear regression is sensitive to outliers C) Can't say	
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 r variable? 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 for A) High bias and high variance C) Low bias and high variance	itting 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	Illed as: B) Predictive modal D) All of the above
7.	Lasso and Ridge regression techniques bel 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 usesto match A) TPR and FPR C) Sensitivity and Specificity	(AUCROC) curve is an evaluation metric for binary ake graph? B) Sensitivity and precision D) Recall and precision
10	0. In AUC Receiver Operator Characteristic (AUCROC) curve for the better model area under the curve should be less.A) TrueB) False	
11	. Pick the feature extraction from below:	
	A) Construction bag of words from a emailB) Apply PCA to project high dimensional daC) Removing stop wordsD) Forward selection	ata
In Q12, more than one options are correct, choose all the correct options:		
12	Regression? A) We don't have to choose the learning rate B) It becomes slow when number of features	
	C) We need to iterate.	



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

13. Explain the term regularization?

Ans: - Regularization refers to techniques that are used to calibrate machine learning models in order to minimize the adjusted loss function and prevent overfitting or underfitting

14. Which particular algorithms are used for regularization?

Ans: Linear Regression(Ridge & Lasso)

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

Ans:- Error is the difference between the actual value and Predicted value