

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	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 fi High bias and high variance 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 Descriptive model C) Reinforcement learning	lled as: B) Predictive modal D) All of the above
	7.	Lasso and Ridge regression techniques below. A) Cross validation C) SMOTE	ong to? B) Removing outliers D) Regularization
i	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 ke graph? B) Sensitivity and precision D) Recall and precision
	10.	In AUC Receiver Operator Characteristic (AUCROC) curve for the better model area under the curve should be less. A) True 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 C) Removing stop words D) Forward selection 	ıta
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.			
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Q13 and Q15 are subjective answer type questions, Answer them briefly.

13. Explain the term regularization?

the act of bringing to uniformity; making regular. synonyms: regularisation, regulation. type of: control. the activity of managing or exerting control over something.

14. Which particular algorithms are used for regularization?

There are three main regularization techniques, namely: Ridge Regression (L2 Norm) Lasso (L1 Norm) Dropout.

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

Within a linear regression model tracking a stock's price over time, the error term is the difference between the expected price at a particular time and the price that was actually observed. ... The error term stands for any influence being exerted on the price variable, such as changes in market sentiment.