

## **MACHINE LEARNING**

1. Which of the following methods do we use to find the best fit line for data in Linear Regression?

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

	A) Least Square Error     C) Logarithmic Loss	B) Maximum Likelihood D) Both A and B
	Answer: A)	
2.	C) Can't say	outliers in linear regression?  B) linear regression is not sensitive to outliers  D) none of these
	Answer: A)	
3.	A line falls from left to right if a slope is A) Positive C) Zero	? B) Negative D) Undefined
	Answer: B)	
<ul><li>4. Which of the following will have symmetric relation between dependent variable a variable?</li><li>A) Regression</li><li>B) Correlation</li></ul>		
	C) Both of them	D) None of these
	Answer: B)	
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
	Answer: C)	
6.	If output involves label then that model is ca A) Descriptive model C) Reinforcement learning	lled as: B) Predictive modal D) All of the above
	Answer: B)	DDODO
7.	Lasso and Ridge regression techniques belong to?	
	A) Cross validation C) SMOTE	B) Removing outliers D) Regularization
	Answer: D)	



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8.	To overcome with imbalance dataset which	·	
	A) Cross validation     C) Kernel	B) Regularization D) SMOTE	
	o, remer	5) GMG12	
	Answer: D)		
9.	The AUC Receiver Operator Characteristic classification problems. It usesto make 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	
	Answer: A)		
10	In AUC Receiver Operator Characteristic (A	AUCROC) curve for the better model area under the	
	curve should be less. A) True	B) False	
		b) Faise	
	Answer: B)		
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		
	Answer: A)		
Q1	2, more than one options are correct, cho	ose all the correct options:	
12	2. Which of the following is true about Normal Regression?  A) We don't have to choose the learning rat B) It becomes slow when number of feature C) We need to iterate.  D) It does not make use of dependent varial	s is very large.	
	Answer: B)		
(	Q13 and Q15 are subjective answer type	questions, Answer them briefly.	
13	3. Explain the term regularization?		
	nswer: Regularization is a method where we treefitting.	y to fit the training set in an appropriate way and avoiding	
14	. Which particular algorithms are used for reg	gularization?	
Ar	nswer: Ridge regression, Lasso and Dropout.		



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

Answer: It is the difference between the expected value and the actual value.