

MACHINE LEARNING

1.	Which of the following methods do we use to find the best fit line for data in Linear Regression?					
	A) Least Square Error			B) Maximum Likelihood		
	C) Logarithmic	Loss		D) Both A and B		
Answer	: A) Least Squar	re Error				
2.	Which of the following statement is true about A) Linear regression is sensitive to outliers C) Can't say				sion? s not sensitive to outliers	
Answer	: A) Linear regre	ession is sensitive	to outliners			
3.	A line falls from A) Positive	m left to right if a s B) Negative	-	_? D) Undefined		
Answer	: B) Negative					
4.		ollowing will have B) Correlation	symmetric rel C) Both of the	_	nt variable and independent variable these	?
Answer	B) Correlation					
	Which of the for A) High bias and C) Low bias and	_	son for over fit	ting condition? B) Low bias and low D) none of these	variance	
Answer	:: C) Low bias ar	nd high variance				
	If output involv A) Descriptive (C) Reinforceme		model is calle	d as: B) Predictive modal D) All of the above		
Answer	B) Predictive r	model	FLI	PROI	BO	

	A) Cross validation	B) Removing outliers			
	C) SMOTE	D) Regularization			
Answei	r: A) Cross validation				
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8.	To overcome with imbalance dataset which (A) Cross validation	B) Regularization			
	C) Kernel	D) SMOTE			
	,	,			
Answei	r: D) SMOTE				
9.	. The AUC Receiver Operator Characteristic (AUCROC) curve is an evaluation metric for binary classification problems. It uses to make graph?				
	A) TPR and FPR	B) Sensitivity and precision			
	C) Sensitivity and Specificity	D) Recall and precision			
Answei	r: A) TPR and FPR				
10	. In AUC Receiver Operator Characteristic (A be less.	UCROC) curve for the better model area under the curve should			
	A) True B) False				
Answer	r: B) False				
11	. Pick the feature extraction from below:				
	A) Construction bag of words from an email				
	B) Apply PCA to project high dimensional de	ata			
	C) Removing stop words				
	D) Forward selection				
Answei	r: B) Apply PCA to project high dimensional of	data			
12	. Which of the following is true about Normal Regression?	Equation used to compute the coefficient of the Linear			
	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.				

7. Lasso and Ridge regression techniques belong to _____?

Answer: 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.

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13. Explain the term regularization?

Answer: Regularization helps in overcoming the problem of overfitting and also increase the model interpretability. It is one of the most important concepts of ML, as it shrinks the coefficient to zero.

14. Which particular algorithms are used for regularization?

Answer: There are below listed main regularization techniques:

- 1. Ridge Regression.
- 2. LASSO (Least Absolute Shrinkage and Selection Operator) Regression.
- 15. Explain the term error present in linear regression equation?

Answer: It defines the difference between the predictive value according to trained data and the actual value which we received.