## **MACHINE LEARNING**

<ol> <li>Which of the following method</li> <li>Least Square Error</li> <li>Logarithmic Loss</li> </ol>		ds do we use to find the best fit line for data in Linear Regression?  B) Maximum Likelihood  D) Both A and B	
Ans. A			
2. Which of the follo A) Linear regression C) Can't say			outliers in linear regression?  B) linear regression is not sensitive to outliers  D) none of these
Ans. A			
	eft to right if a Negative Undefined	a slope is	?
Ans. B			
variable? A) Regression	owing will hav B) Corre D) None	elation	ation between dependent variable and independent
Ans. B			
5. Which of the follo A) High bias and higl C) Low bias and high	h variance	B) Low bias and	low variance
Ans. C			
6. If output involves A) Descriptive mode C) Reinforcement le	I	at model is calle B) Predictive mo D) All of the abo	odal
Ans. B			
7. Lasso and Ridge r A) Cross validation C) SMOTE	B) Remo	hniques belong t oving outliers larization	:o?
Ans. D			
8. To overcome with A) Cross validation C) Kernel		larization	chnique can be used?
Ans. D			
9. The AUC Receiver classification proble A) TPR and FPR C) Sensitivity and Sp	ms. It uses	to make gra B) Sensitivity an	d precision

Ans. A

- 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

- 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. B

- 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.

13. Explain the term regularization?

Ans. Regularization is the process of tuning machine learning models in order to avoid underfitting and overfitting by adding a penalty term to the model's objective function.

14. Which particular algorithms are used for regularization?

Ans. LASSO, and Ridge are the algorithms that are commonly used for regularization

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

Ans. Error is the difference between the predicted value by the linear regression model and the actual value.