MACHINE LEARNING

 Which of the following methods do we use to find the best fit line for data in Linear Regression? Least Square Error Maximum Likelihood Logarithmic Loss Both A and B 	
 2. Which of the following statement is true about outliers in linear regression? A) Linear regression is sensitive to outliers B) linear regression is not sensitive to outliers C) Can't say D) none of these 	
 3. A line falls from left to right if a slope is? A) Positive B) Negative C) Zero D) Undefined 	
 4. Which of the following will have symmetric relation between dependent variable and independent variable? A) Regression B) Correlation C) Both of them D) None of these 	it
 5. Which of the following is the reason for over fitting condition? A) High bias and high variance B) Low bias and low variance C) Low bias and high variance D) none of these 	
 6. If output involves label then that model is called as: A) Descriptive model B) Predictive modal C) Reinforcement learning D) All of the above 	
7. Lasso and Ridge regression techniques belong to? A) Cross validation B) Removing outliers C) SMOTE D) Regularization	
8. To overcome with imbalance dataset which technique can be used?A) Cross validationB) RegularizationC) KernelD) 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 	

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- 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 data
- C) Removing stop words
- D) Forward selection

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.
- D) It does not make use of dependent variable.
- 13. Explain the term regularization?

Ans=In machine learning regularization is the process which regularise or shrink the coffecient towards zero. In simple word, regularization discourage learning a more complex or flexible model, to prevent overfitting.

14. Which particular algorithms are used for regularization?

Ans=There are various regularization technique, some of the most popular are L1,L2 dropout, early stopping, and data augmentation.

- L1 regularization technique is called LASSO.
- 15. Explain the term error present in linear regression equation?

Ans=in linear regression the stock's price over time, the error term is the difference between the expected price at a particular time.