MACHINE LEARNING

1. Which of the following methods do we use to find the best fit line for data in Linear Regression?
   Ans : A) Least Square Error

2. Which of the following statement is true about outliers in linear regression?
   Ans : A) Linear regression is sensitive to outliers

3. A line falls from left to right if a slope is _____?
   Ans : B) Negative

4. Which of the following will have symmetric relation between dependent variable and independent variable?
   Ans : C) Both of them

5. Which of the following is the reason for over fitting condition?
   Ans : C) Low bias and high variance

6. If output involves label then that model is called as:
   Ans : B) Predictive model

7. Lasso and Ridge regression techniques belong to _____?
   Ans : D) Regularization

8. To overcome with imbalance dataset which technique can be used?
   Ans : D) SMOTE

9. The AUC Receiver Operator Characteristic (AUCROC) curve is an evaluation metric for binary classification problems. It uses _____ to make graph?
   Ans : A) TPR and FPR

10. In AUC Receiver Operator Characteristic (AUCROC) curve for the better model area under the curve should be less.
    Ans : B) False

11. Pick the feature extraction from below:
    Ans : B) Apply PCA to project high dimensional data

12. Which of the following is true about Normal Equation used to compute the coefficient of the Linear Regression?
    Ans: A) We don't have to choose the learning rate.
    B) It becomes slow when number of features is very large

13. Explain the term regularization?

Ans: Regularization is the technique which is used to solve the issue of underfitting an overfitting In a model.

14. Which particular algorithms are used for regularization?

Ans: 1) Lasso Regression 2) Ridge Regression 3) Elastic Net

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

Ans : Its represents the distance between the actual point from the regression line. It's the difference between the actual data point and the predicted data point by the model.