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 modal

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 - A) True

11. Pick the feature extraction from below:

Ans - D) Forward selection

12. Which of the following is true about Normal Equation used to compute the coefficient of the Linear Regression?

Ans - B) It becomes slow when number of features is very large.

D) It does not make use of dependent variable.

13. Explain the term regularization?

Ans- This is a form of regression, that constrains/ regularizes or shrinks the coefficient estimates towards zero. In other words, this technique discourages learning a more complex or flexible model, so as to avoid the risk of overfitting.

14. Which particular algorithms are used for regularization?

Ans - LASSO(Least Absolute Shrinkage and Selection Operator) regression.

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

Ans- The error term is the difference between the expected price at a particular time and the price that was actually observed.