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. B) Correlation

5. Which of the following is the reason for over fitting condition?

Ans. A) High 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. SMOTE

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

Ans. C) Sensitivity and Specificity

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

13. Explain the term regularization?

Ans. Just like the literal meaning of the word, regularization is a technique that helps to minimize the errors or overfitting in a training dataset.

14. Which particular algorithms are used for regularization?

Ans. The algorithms that are used are as follows:

- Ridge Regression
- LASSO (Least Absolute Shrinkage and Selection Operator) Regression
- Elastic-Net Regression

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

Ans. When a Linear Regression model gives an expected value for a certain set of features in data, then the difference between the expected and the actual value is defined on certain factor is termed as term error.