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 B

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) 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:

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) 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

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?

Ans) 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.

MACHINE LEARNING

13. Explain the term regularization?

Ans) It is used to reduce the error by fitting a function in the given training set to avoid overfitting.

14. Which particular algorithms are used for regularization?

Ans) They are three types of algorithms are used for regularization

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

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

Ans) A linear regression always has an error term because in real life independent variables are never perfect predict of the dependent variables.