

1. Which of the following methods do we use to find the best fit line for data in Linear Regression?

Ans. :- Least Square Error

2. Which of the following statement is true about outliers in linear regression?

Ans. :- Linear regression is sensitive to

3. A line falls from left to right if a slope is _____?

Ans. :- Negative

4. Which of the following will have symmetric relation between dependent variable and independent variable?

Ans. :- None of these

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

Answer :- Low bias and high variance

6. If output involves label then that model is called as:

Ans. :- Predictive modal

7. Lasso and Ridge regression techniques belong to _____?

Ans. :- 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. :- Sensitivity and precision

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

Ans. :- True

11. Pick the feature extraction from below:

Ans. :- 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. :- 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. :- Regularization is a technique used to reduce the errors by fitting the function appropriately on the given training set and avoid overfitting.

14. Which particular algorithms are used for regularization?

Ans. :- Lasso

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

Ans. :- Also known as the residual term or disturbance term, according to mathematical convention, the error term is the last term in a model regression equation and is represented by the Greek letter epsilon.