

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: 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: B) False

11. Pick the feature extraction from below:

Ans: A) Construction bag of words from an email

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

Ans: A, B, C and D

13. Explain the term regularization?

Ans: Regularization refers to techniques that are used to calibrate machine learning models in order to minimize the adjusted loss function and prevent overfitting or underfitting.

14. Which particular algorithms are used for regularization?

Ans: Different algorithms used for regularization are Ridge Regression, LASSO (Least Absolute Shrinkage and Selection Operator) Regression and Elastic-Net Regression.

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

Ans: In a linear regression equation the error term is the difference between the expected value at a particular time and the value that was actually observed.