Machine Learning

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

Answer: Least Square Error

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

Answer: Linear regression is sensitive to outliers

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

Answer: Negative

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

Answer: Regression

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:

Answer: Predictive Modal

7. Lasso and Ridge regression techniques belong to _____?

Answer: Regularization

8. To overcome with imbalance dataset which technique can be used?

Answer: SMOTE

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

Answer: TPR and FPR

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

Answer: False

11. Pick the feature extraction from below:

Answer: 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?

Answer: It becomes slow when number of features is very large. & We need to iterate.

13. What is Regularization?

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

14. Which particular algorithms are used for regularization?

Answer: LASSO & RIDGE

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

Answer: Term Error is the difference between the expected value at a particular point and the value that was actually observed.