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

- A) Least Square Error

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

- A) Linear regression is sensitive to outliers

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

-B) Negative

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

-A) Regression

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

-C) Low bias and high variance

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

-A) Descriptive mode

7. Lasso and Ridge regression techniques belong to _____?

-D) Regularization

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

-C) SMOTE

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

-A) TPR and FPR

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

-B) False

11. Pick the feature extraction from below:

-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?

A) We don't have to choose the learning rate.
B) It becomes slow when number of features is very large.

13. Explain the term regularization?

- Regularization is one of the most important concepts of machine learning. It is a technique to prevent the model from overfitting by adding extra information to it.

14. Which particular algorithms are used for regularization?

- a. Ridge Regression, b. Lasso , c. Dropout

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

- The error term is an important component of regression analysis as it reflects the presence of unobserved factors or random variation that affect the dependent variable. It is typically assumed to follow certain statistical properties, such as being normally distributed with a mean of zero