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 too sensitive to outliers

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?

Ans: low bais and high variance

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

Ans: Predictive model

7. Lasso and Ridge regression techniques belong to \_\_\_\_\_\_\_\_\_?

Ans: Regularization

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

Ans: cross validation

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

Ans: TPR and FPR

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

Ans: False

11. Pick the feature extraction from below:

Ans: Construction bag of words from a email

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

Ans: We don’t have to choose the learning rate.

It becomes slow when number of features is very large.

13. Explain the term regularization?

Ans: Basically, it is the technique used in machine learning to prevent the overfitting and improve the generalization of models.

14. Which particular algorithms are used for regularization?

Ans: Lasso regularization-L1, Ridge regularization-L2, elastic net regularization-L1&L2, Landweber regularization, tikhonov regularization.

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

Ans : It is difference between the observed value and predicted value. Its in form of random variable take may take positive negative or may be the zero value, with mean of zero