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:::::: Zero

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

ANSWER:::::::::: 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:

ANSWER:::::::::) Reinforcement learning

7. Lasso and Ridge regression techniques belong to _____?

ANSWER:::::::::: Regularization

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

ANSWER::::::::: Cross validation

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.

13) Explain the term regularization?

ANSWER:::::::: **This is a form of regression, that constrains/ regularizes or shrinks the coefficient estimates towards zero. In other words, this technique discourages learning a more complex or flexible model, so as to avoid the risk of overfitting**

14) . Which particular algorithms are used for regularization?

ANSWER::::: Ridge Regression (L2 Norm)

1. *Lasso (L1 Norm)*
2. *Dropout*

15) Explain the term error present in linear regression equation?
*ANSWER::::::::: **Error is the difference between the actual value and Predicted value and the goal is to reduce this difference***