Machine Learning Answers

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- Predictive Model

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:
A) Construction bag of words from a email
B) Apply PCA to project high dimensional data C) Removing stop words
D) Forward selection

Ans- (A) 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-A,B,C

13.Regularizzation- Regularization refers to the technique used in Machine Learning to deal with the overfitting and underfitting caused by Variance Biased Tradeoff.

14. Algorithms which are used for Regularization are of three types: -

- Lasso Regression(L1)
- Ridge Regression(L2)
- Elastic Net (both properties of L1 and L2)

15.The term error in the Linear Regression is difference between the predicted values and the actual observed values. It is represented by the distance between each point and the linear graph.