Machine learning-worksheet1

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: C) Both of them

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: B) Predictive modal

7. Lasso and Ridge regression techniques belong to _____?

Ans: B) Removing outliers

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

Ans: A) Cross validation

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: A) True

11. Pick the feature extraction from below:

Ans: 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?

B) It becomes slow when number of features is very large.

C) We need to iterate.

13. Explain the term regularization?

Ans: Regularization is the techniques are used to calibrate machine learning models in order to minimize the adjusted loss function and prevent overfitting or underfitting.

14. Which particular algorithms are used for regularization?

Ans: Ridge Regression, Lasso Regression and dropout

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

Ans: error term is the difference between the expected price at a particular time and the price that was actually observed.