

MACHINE LEARNING ASSIGNMENT 39

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?

A) Linear regression is sensitive to outliers

B)

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?

C) Both of them

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:

B) Predictive modal

7. Lasso and Ridge regression techniques belong to _____?

D) Regularization

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

D) 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:

D) Forward selection

In Q12, more than one options are correct, choose all the correct options:

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.

Q13 and Q15 are subjective answer type questions, Answer them briefly.

13. Explain the term regularization?

Ans: regularization is a technique use to tackle overfitting problem n a given data. 2 types of regularization methods that are widely used are LASSO ans RIDGE.

14. Which particular algorithms are used for regularization?

Ans: LASSO AND RIDGE

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

Ans: Error is the difference between actual data point and best fit line data point.

