

MACHINE LEARNING

In Q1 to Q11, only one option is correct, choose the correct option:

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 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. Correlation

5. Which of the following is the reason for over fitting condition?

Ans. Low bias and high variance

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

Ans. Predictive modal

7. Lasso and Ridge regression techniques belong to_____?

Ans. Regularization

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

Ans. Smote

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. Apply PCA to project high dimensional data

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?

Ans.

A) We don't have to choose the learning rate.

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

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

13. Explain the term regularization?

Ans. regularization is the process which regularizes or shrinks the coefficients towards zero.

14. Which particular algorithms are used for regularization?

Ans. L1, L2, dropout, early stopping, and data augmentation.

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

Ans. Error is the difference between the actual value and Predicted value and the goal is to reduce this difference.
