

MACHINE LEARNING

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: Negative

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

Answer: Both of them

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: Predictive model

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: A) We don't have to choose the learning rate. B) It becomes slow when number of features is very large. C) We need to iterate.

13. Explain the term regularization?

Answer: it is used to calibrate machine learning models in order to reduce the adjusted loss function to prevent overfitting.

14. Which particular algorithms are used for regularization?

Answer: 2 types

a: ridge regularization (L2)

b: Lasso regularization (L1)

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

Answer: