

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?
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 (Regression & Correlation)
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 modal
7. Lasso and Ridge regression techniques belong to _____?
Answer- Regularization
8. To overcome with imbalance dataset which technique can be used?
Answer-SMOTE
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-True
11. Pick the feature extraction from below:
Answer-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?
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.
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Q13 and Q15 are subjective answer type questions, Answer them briefly.

13. Explain the term regularization?

Answer-Regularization refers to techniques that are used to calibrate machine learning models in order to minimize the adjusted loss function and prevent over fitting or under fitting

14. Which particular algorithms are used for regularization?

Answer-For regularization used Ridge Regression and Lasso Regression

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

Answer-An error term represents the margin of error in model.difference between the theoretical value of the model and the actual observed results.