

MACHINE LEARNING WORKSHEET

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?

- A) Least Square Error B) Maximum Likelihood
- C) Logarithmic Loss D) Both A and B

Ans. A

2. Which of the following statement is true about outliers in linear regression?

- A) Linear regression is sensitive to outliers B) linear regression is not sensitive to outliers
- C) Can't say D) none of these

Ans. A

3. A line falls from left to right if a slope is _____?

- A) Positive B) Negative
- C) Zero D) Undefined

Ans. B

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

- A) Regression B) Correlation
- C) Both of them D) None of these

Ans. C

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

- A) High bias and high variance B) Low bias and low variance
- C) Low bias and high variance D) none of these

Ans. C

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

- A) Descriptive model B) Predictive modal
- C) Reinforcement learning D) All of the above

Ans. B

7. Lasso and Ridge regression techniques belong to _____?

- A) Cross validation B) Removing outliers
- C) SMOTE D) Regularization

Ans. D

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

- A) Cross validation B) Regularization
- C) Kernel D) SMOTE

Ans. D

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 B) Sensitivity and precision
- C) Sensitivity and Specificity D) Recall and precision

Ans. A

10. In AUC Receiver Operator Characteristic (AUCROC) curve for the better model area under the curve should be less.

- A) True B) False

Ans. B

11. Pick the feature extraction from below:

- A) Construction bag of words from a email
- B) Apply PCA to project high dimensional data
- C) Removing stop words
- D) Forward selection

Ans. A

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.

C) We need to iterate.

D) It does not make use of dependent variable.

Ans. A ,B & C