

MACHINE LEARNING WORKSHEET

MCQs.

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

Answer: **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) linear regression is not sensitive to outliers
- C) Can't say
- D) none of these

Answer: **A) Linear regression is sensitive to outliers**

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

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

Answer: **B) Negative**

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

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

Answer: **A) Regression**

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

Answer: **C) Low bias and High variance**

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

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

Answer: **B) Predictive model**



7. Lasso and Ridge regression techniques belong to _____?

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

Answer: **D) Regularization**

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

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

Answer: **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
- C) Sensitivity and Specificity
- B) Sensitivity and precision
- D) Recall and precision

Answer: **A) TPR and FPR**

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

- A) True
- B) False

Answer: **B) False**

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

Answer: **B) 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?

- 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.

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

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