

MACHINE LEARNING

1. Which of the following methods do we use to find the best fit line for data in liner regression?

Ans – a- least square error.

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

Ans- a- liner regression is sensitive to outliers.

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

Ans- b- negative.

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

Ans- b- correlation.

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

Ans- b- low bias and low variance.

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

Ans- a- descriptive model.

7. Lasso and Ridge regression techniques belongs to _____?

Ans- d- regulation.

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

Ans- a- cross validation.

9. The AUC receiver operator characteristics (AUCROC) curve is an evaluation metric for binary classification problems. It uses _____ to make graph?

Ans- a- TPR and FPR.

10. In AUC receiver operator characteristic (AUCROC) curve for the better model area under the curve should be less.

Ans- a- true.

11. Pick the feature extraction from below:

Ans- b- apply PCA project high dimensional data.

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 becomes slow when number of features is very large.

c- we need to iterate.

13. Which is regularization?

Ans- This is a form of regression, that constrains regularizes or shrinks the coefficient estimates towards zero. In other words, this technique discourages learning a more complex or flexible model, so as to avoid the risk of over fitting.

14. Which particular algorithms are used for regularization?

Ans- There are three main regularization techniques?

1. Ridge regression
2. L_1 dropout
3. L_2 lasso.

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

Ans- Linear regression is a way to model the relationship between two variables. The equation takes the form $Y = a + bx$, where y is the dependent variable, X is the independent variable, A is the Y intercept and B is the slope of the line.

