Unit 09: Regression Models

1. Regression is the task of predicting

Continuous quantities | Categorical values | Both of these | None of the above

2. Using supervised machine learning techniques, we can

A. Predict the continuous quantities | B. Predict the categorical values | C. Both of the above | D. None of the above

3. Which of the following are the applications of regression?

Sales and promotion forecasting | Testing automobiles | Time series forecasting | All of the above

4. The factor which we want to predict or understand in regression is

Dependent variable | Independent variable | Non-dependent variable | None of the above

5. The factors which are used to predict the values are known as

Dependent variable | Independent variables | Pending variables | None of the above

6. What is an outlier?

A value much lesser than other values | A value much greater than other values | Either of the above | None of the above

7. The concept of multicollinearity should be avoided for ranking the most affecting variable.

True | False

8. The concept of multicollinearity should be avoided for ranking the most affecting variable.

True | False

9. What kind of issue occurs if the algorithm does not even work well with training data?

Overfitting | Underfitting | Any of these | None of the above

10. If an algorithm works well with training data, but not with testing data. Then what kind of issue can occur?

Overfitting | Underfitting | Any of these | None of the above

11. By performing regression, we can determine

Most important factor	Least important factor	Reason of one factor affecting the another	All of the above

12. Which of these are the types of regression?

Lasso regression	Decision tree regression	Support vector regression	All of the above

13. Which of the following is used to solve the classification problem?

K-means clustering	Linear regression	Logistic regression	Hierarchical clustering

14. Which of the following are types of logistic regression?

Binary	Multi	Ordinal	All of the above

15. Why are regularization techniques used?

To reduce error	To improve the model prediction	To make a good model	All of the above

16. The performance metrics of regression are

Mean absolute error	Mean Squared error	Root mean squared error	All of the above