1.A

2.D

3.B

4.B

5.C

6.B

7.D

8.D

9.C

10. A

11.B

12.A,B,C

13) Regularization( To make things acceptable)

When a machine learning model models the training data well but fails to perform well on the testing data i.e., it was not able to predict the test data. It is known as overfitting. This overfitting situation can be dealt with **Regularization** in Machine Learning.

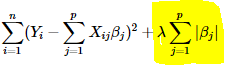
So it is a technique used to prevent the model from overfitting by adding extra information to it.

14) Regularization Algorithms

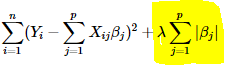
Two widely used Regularization Algorithms used to address overfitting and feature selection are L1 and L2 regularization

* L1 Regularization

L1 Regularization, also known as Lasso Regression “ adds the absolute value of magnitude” of the coefficient as a penalty term to the loss function.



* L2 Regularization, also called a Ridge Regression “ adds the square magnitude” of the coefficient as a penalty term to the loss function.



15) The Standard error of the Regression (S) also known as standard error of the estimate, represents the average distance that the observed values fall from the Regression line.

The **error term** is he term in a model Regression equation that tallies up and accounts for the unexplained difference between the actually observed values of the independent variable and the results predicted by the model.

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