MACHINE LEARNING

1.A

2.A

3.B

4.B

5.C

6.B

7.D

8.D

9.A

10.B

11.B

12.A&B

13. Regularization is a technique used in machine learning and statistics to prevent models from overfitting to the training data. Overfitting occurs when a model learns not only the underlying patterns but also the noise and fluctuations in the training data, which can result in poor performance on new, unseen data

14. In summary, regularization can be applied to a variety of algorithms through different techniques tailored to the specific characteristics of each algorithm, with the goal of improving generalization and preventing overfitting.

1. Linear Regression

2. Logistic Regression

3. Support Vector Machines (SVMs)

4. Neural Networks

5. 5. Decision Trees

6. Generalized Linear Models (GLMs)

7. Ensemble Methods

15. In linear regression, the term "error" typically refers to the difference between the observed values and the values predicted by the model. This error is crucial for understanding how well the linear regression model fits the data. Here's a more detailed explanation:

1.. Error in Linear Regression

2.Definition of error

3. types of error

4.importance of error