

Machine Learning Worksheet

Multiple Choice Questions

1. Least Square Error
2. Linear regression is sensitive to outliers
3. Negative
4. Correlation
5. Low bias and high variance
6. Predictive model
7. Regularization
8. SMOTE
9. TPR and FPR
10. False
11. Apply PCA to project high dimensional data

Multiple Correct Answers

1. 12. A and B

Subjective Questions

13. Explain the term regularization?

Techniques used to prevent overfitting by adding a penalty term to the loss function.

14. Which particular algorithms are used for regularization?

Lasso, Ridge Regression

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

The difference between the observed values and the values predicted by the model, typically measured as mean squared error.