

MACHINE LEARNING ASSIGNMENT

Answer1. Least Square method(A)

Answer 2. Linear regression is sensitive to outliers(A)

Answer3. Negative(B)

Answer4. Correlation (B)

Answer5. low bias and high variance(C)

Answer6. Predictive model(B)

Answer7. Regularization(D)

Answer8. SMOTE(C)

Answer9. Sensitivity and Specificity(C)

Answer10. True(A)

Answer11. Apply PCA to project high dimensional data(B)

Answer12. BOTH A AND B

Answer13. The Term Regularization is one of the most important concepts of machine learning this technique prevents the model from overfitting by adding extras to it. We can say it is form of regression uses to avoid the problem of overfitting.

Answer 14. There are mainly two types of algorithms used for regularization one is Lasso technique and other is Ridge Technique. Ridge regression is one of the types of linear regression in which we introduce a small amount of bias known as Ridge regression penalty so that we can get better long-term predictions. Lasso regression is another variant of the regularization technique used to reduce the complexity of the model. It stands for Least Absolute and Selection Operator.

Answer 15. Error is the difference between the actual value and Predicted value and the goal is to reduce this difference.