

MACHINE LEARNING ASSIGNMENT – 39

1. A) Least Square Error
2. A) Linear regression is sensitive to outliers
3. B) Negative
4. B) Correlation
5. C) Low bias and high variance
6. B) Predictive modal
7. D) Regularization
8. D) SMOTE
9. D) Recall and precision
10. A) True
11. B) Apply PCA to project high dimensional data
12. C) We need to iterate
13. Regularization refers to techniques that are used to calibrate machine learning models in order to minimize the adjusted loss function and prevent overfitting or underfitting. Using Regularization, we can fit our machine learning model appropriately on a given test set and hence reduce the errors in it.
14. The term 'regularization' refers to a set of techniques that regularizes learning from particular features for traditional algorithms or neurons in the case of neural network algorithms. Regularization algorithms like LASSO, Ridge, and Elastic-Net regression.
15. Error is the difference between the actual value and Predicted value and the goal is to reduce this difference. The blue line is the best fit line predicted by the model i.e the predicted values lie on the blue line.