MACHINE LEARNING WORKSHEET

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) A) TPR and FPR
10) B) False
11) A), B), C)
12) 12) A, B, C

13. Explain the term regularization?

Regularization refers to techniques that are used to adapt 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. Which particular algorithms are used for regularization?

RIDGE (L1) REGULARIZATION

LASSO (L1) REGULARIZATION

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

An error term appears in a statistical model, like a regression model, to indicate the uncertainty in the model.

The error term is a residual variable that accounts for a lack of perfect goodness of fit.

The error term includes everything that separates your model from actual reality. This means that it will reflect nonlinearities, unpredictable effects, measurement errors, and omitted variables.