Worksheet Set_1:-

MACHINE LEARNING ASSIGNMENT

Q1:- A) Least Square Error

Q2:- A) Linear regression is sensitive to outliers

Q3:- B) Negative

Q4:- D) None of these

Q5:- C) Low bias and high variance

Q6:- B) Predictive Model

Q7:- A) Cross validation

Q8:- A) Cross validation

Q9:- A) TPR and FPR

Q10:- B) False

Q11:- B) Apply PCA to project high dimension data

Q12:- A-B-C

Q13:- Explain the term regularization?

Ans:- Regularization is a set of methods for reducing overfitting in machine learning models. Typically, regularization trades a marginal decrease in training accuracy for an increase in generalizability.

Q14:- Which particular algorithms are used for regularization?

Ans:- The commonly used regularization techniques are : Lasso Regularization – L1 Regularization. Ridge Regularization – L2 Regularization.

Q15:- Explain the term error present in linear regression equation?

Ans:- 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.