

Machine Learning Assignment Answers

Q1.

Ans.:- A) Least Square Error

Q2.

Ans.:- A) Linear regression is sensitive to outliers

Q3.

Ans.:- B) Negative

Q4.

Ans.:- A) Regression

Q5.

Ans.:- D) none of these

Q6.

Ans.:- B) Predictive modal

Q7.

Ans.:- D) Regularization

Q8.

Ans.:- D) SMOTE

Q9.

Ans.:- A) TPR and FPR

Q10.

Ans.:- A) True

Q11.

Ans.:- B) Apply PCA to project high dimensional data

Q12.

Ans.:- A) We don't have to choose the learning rate.

B) It becomes slow when number of features is very large.

Q13.

Ans.:- This is a form of regression, that constrains or shrinks the coefficient estimates towards zero. It is a technique to prevent the model from over fitting by adding extra information to it.

Q14.

Ans.:- 1) Lasso regularization (also called L1 regularization),
2) Ridge regularization (L2 regularization)
3) Elastic Net regularization.

Q15.

Ans.:- The error term is an important component of regression analysis as it reflects the presence of unobserved factors or random variation that affect the dependent variable. It is typically assumed to follow certain statistical properties, such as being normally distributed with a mean of zero.