

FLIP ROBO TECHNOLOGIES

MACHINELEARNING WORK ASSIGNMENT

ANSWER Q-1:- (A) LEAST SQUARE ERROR

ANSWER Q-2:- (A) LINEAR REGRESSION IS SENSITIVE TO OUTLIERS

ANSWER Q-3:- (B) NEGATIVE

ANSWER Q-4:- (B) CORRELATION

ANSWER Q-5:- (C) LOW BIAS AND HIGH VARIANCE

ANSWER Q-6:- (B) PREDICTIVE MODEL

ANSWER Q-7:- (D) REGULARIZATION

ANSWER Q-8:- (D) SMOTE

ANSWER Q-9:- (A) TPR AND FPR

ANSWER Q-10:- (B) FALSE

ANSWER Q-11:- (B) APPLY PCA TO PROJECT HIGH DIMESIONAL DATA

ANSWER Q-12:- (A) WE DON'T HAVE TO CHOOSE THE LEARNING RATE.

(B) IT BECOMES SLOW WHEN NUMBER OF FEATURES IS VERY LARGE.

ANSWER Q-13:- Regularization refers to the techniques used for transforming machine learning models in order to minimize the adjusted loss function and prevent Overfitting or Underfitting. Mainly we have 2 techniques for treating this:-

- 1. Lasso**
- 2. Ridge**

ANSWER Q-14:- ALGORITHMS USED FOR REGULARIZATION ARE:-

1. LASSO(LEAST ABSOLUTE SHRINKAGE AND SELECTION OPERATOR)

It adds absolute value of magnitude of coefficient as penalty to the loss function.

2. RIDGE(L2 Form):- It adds squared magnitude of coefficient as penalty term to the loss function.

ANSWER Q-15:- The term Error in linear regression refers to the difference between the observed variable and the predicted variable. It uses techniques like Mean squared error, Mean Absolute error, and RMSE.