

Answer

1. Least Square Error
2. A linear regression is sensitive to outliers
3. Negative
4. Regression
5. Low bias and high variance
6. Predictive Model
7. Regularization
8. SMOTE
9. TPR and FPR
10. False
11. Construction bag of words from a email
12. A) We don't have to choose the learning rate.
B) It becomes slow when number of features is very large.
C) We need to iterate.
13. When we use regression models to train some data, there is good chance that the model will overfit training data. Therefore Regularization helps to avoid overfitting.

Types of regularization:

1. LASSO (Least Absolute Shrinkage and Selection Operator)
 2. Ridge Regression
14. Regularization used for following algorithms:
1. LASSO (Least Absolute Shrinkage and Selection Operator) Regression (L1 Form)
 2. Ridge Regression (L2 Form)
 3. Pruning Decision Tree
 4. Ensembling

15. The error term in linear regression equation is the difference between the predicted values and the actually observed values. The error between predicted values and actual values should be minimum. In regression analysis the error term also known as residual.