ANSWERSHEET MACHINE LEARNING ASSIGNMENT - 1

Date - 16/04/2023

- 1. Answer Option "D" (Both A & B)
- 2. Answer Option "A" (Linear Regression is sensitive to outliers)
- 3. Answer Option "B" (Negative)
- 4. Answer Option "B" (Corelation)
- 5. Answer Option "C" (Low Bias and high variance)
- 6. Answer Option "B" (Predictive Model)
- 7. Answer Option "D" (Regularization)
- 8. Answer Option "D" (SMOTE)
- 9. Answer Option "A" (TPR AND FPR)
- 10. Answer Option "B" (False)
- 11. Answer Option "A" (Construction bag of words from email)
- 12. Answer Option "A" (We Don't have to choose the learning rate)
- 13. <u>Regularization</u> In Machine Learning Regularization is used to improve generalization of a model to any new given data and to prevent it's over fitting, it is mainly divided in 2 types a. L1 Regularization (Lasso)
 - b. L2 Regularization (Ridge)
- 14. Algorithms used for Regularization
 - a. Linear Regression
 - b. Logistics Regression
 - c. SVM'S
 - d. Neural Networks
 - e. Decision Trees
 - f. KNN (K-Nearest Neighbours)
- 15. <u>Error in Linear Regression Equation</u> it is the difference between the predicted values of the dependent variables and actual values of dependent variables. It is also known as residual and is denoted by the symbol "e"

Mathematically Linear Regression is represented as -y = b0 + b1*x1 + eWhere e is the error term

Submitted by – Ashutosh Mishra