MACHINE LEARNING

1. **Which of the following methods do we use to find the best fit line for data in Linear Regression?**
   ANS: (a) Least Square Error.
2. **Which of the following statement is true about outliers in linear regression?**
   Ans: (a)linear regression is sensitive to outliers.
3. **A line falls from left to right if a slope is _____?**
   Ans: (B) Negative.
4. **Which of the following will have symmetric relation between dependent variable and independent variable?**
   Ans: (B) Correlation.
5. **Which of the following is the reason for over fitting condition?**
   Ans: (c) Low bias and high variance.
6. **If output involves label, then that model is called as:**
   Ans: (b) Predictive modal
7. **Lasso and Ridge regression techniques belong to _____?**
   Ans: (D) Regularization.
8. **To overcome with imbalance dataset which technique can be used?**
   Ans: (d) SMOTE.
9. **The AUC Receiver Operator Characteristic (AUCROC) curve is an evaluation metric for binary classification problems. It uses _____ to make graph?**
   Ans: (a) TPR and FPR.
10. **In AUC Receiver Operator Characteristic (AUCROC) curve for the better model area under the curve should be less.**
    Ans:(b**)** False.
11. **Pick the feature extraction from below:**
    Ans:(c)) Removing stop words
12. **Which of the following is true about Normal Equation used to compute the coefficient of the Linear Regression?**
    Ans: (a), (b), (c).

13. **Explain the term regularization?**
    Ans: The word regularize means to make things regular or acceptable. This is exactly why we use it for. Regularizations are techniques used to reduce the error by fitting a function appropriately on the given training set and avoid overfitting.

14. **Which particular algorithms are used for regularization?**
    Ans: **What is Regularization:**
    Regularization is a technique used in regression to reduce the complexity of the model and to shrink the coefficients of the independent features.
    The most used regularization is there
    L1 Parameter Regularization, Lasso Regression (Least Absolute Shrinkage and Selection Operator) adds “Absolute value of magnitude” of coefficient, as penalty term to the loss function is used for widely in regularization.

15. **Explain the term error present in linear regression equation?**

Ans: the term error present in linear regression equation is, within a linear regression model tracking a stock's price over time, the error term is the difference between the expected price at a particular time and the price that was actually observed. In instances where the price is exactly what was anticipated at a particular time, the price will fall on the trend line and the error term will be zero.