MACHINE LEARNING

Q-1. Which of the following methods do we use to find the best fit line for data in Linear Regression?

Ans= Least Square Error

Q-2. Which of the following statement is true about outliers in linear regression?

Ans= Linear regression is sensitive to outliers

Q-3 . A line falls from left to right if a slope is _____?

Ans= Negative

Q-4. Which of the following will have symmetric relation between dependent variable and independent variable?

Ans= Correlation

Q-5. Which of the following is the reason for over fitting condition?

Ans= Low bias and high variance

Q-6. If output involves label then that model is called as:

Ans= Predictive model

Q-7. Lasso and Ridge regression techniques belong to _____?

Ans= Regularization

Q-8. To overcome with imbalance dataset which technique can be used?

Ans= SMOTE

Q-9. The AUC Receiver Operator Characteristic (AUCROC) curve is an evaluation metric for binary classification problems. It uses _____ to make graph?

Ans= TPR and FPR

Q-10. In AUC Receiver Operator Characteristic (AUCROC) curve for the better model area under the curve should be less.

Ans=False

Q-11. Pick the feature extraction from below:

Ans= Construction bag of words from a email

Q-12. Which of the following is true about Normal Equation used to compute the coefficient of the Linear Regression?

Ans= It becomes slow when number of features is very large & It does not make use of dependent variable.

Q-13. Explain the term regularization?

Ans= In machine learning when we get big data. So we have to normalized the model to get best accuracy of prediction. The term regularization is used when we generalized our model to balance over dataset to avoid overfitting .Usually there is two regularization method one is LASSO regression and another one is REDGE regression.

Q-14. Which particular algorithms are used for regularization?

Ans= There is two types of regularization algorithms that we used. First one is LASSO regression and second is REDGE regression. These two is basically use for regularization. Also both are respectively called as L1 and L2 regression as well.

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

Ans= The term error present in linear regression equation is basically capture all other factors that influence dependent variable .The term error is represents the deference between the actual value and predicted value.