1.	Which of the following methods do we use to find the best fit line for data in Linear Regression?
AN	S: 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
	A line falls from left to right if a slope is?  S: A) Positive
4. Whi	ch of the following will have symmetric relation between dependent variable and independent ble?
ANS: C	) Both of them
	Which of the following is the reason for over fitting condition?  C) Low bias and high variance
	If output involves label then that model is called as: S: D) All of the above
	Lasso and Ridge regression techniques belong to?  S: D) Regularization
8. AN	To overcome with imbalance dataset which technique can be used?  S: D) SMOTE
9. AN	The AUC Receiver Operator Characteristic (AUCROC) curve is an evaluation metric for binary classification problems. It uses to make graph?  NS: 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: B) Apply PCA to project high dimensional data

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

ANS: A) We don't have to choose the learning rate. B) It becomes slow when number of features is very large.

13. Explain the term regularization?

ANS: Regularization is a technique used to reduce the errors by fitting the function appropriately on the given training set and avoid over fitting.

- 14. Which particular algorithms are used for regularization? ANS:
  - Ridge Regression
  - LASSO (Least Absolute Shrinkage and Selection Operator) Regression
  - Elastic-Net Regression

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

ANS: An error term represents the margin of error within a statistical model; it refers to the **sum of the deviations** within the **regression line**, which provides an explanation for the difference between the theoretical value of the model and the actual observed results. The regression line is used as a point of analysis when attempting to determine the correlation between one independent variable and one dependent variable.