•	Which of the following methods do we use to find the best fit line for data in Linear Regression?
	Ans) Both A and B
•	Which of the following statement is true about outliers in linear regression?
	Ans) Linear regression is sensitive to outlier
•	A line falls from left to right if a slope is
	Ans) Negative
•	Which of the following will have symmetric relation between dependent variable and independent variable?
	Ans) correlation
•	Which of the following is the reason for over fitting condition
	Ans) High bias and high variance
•	Lasso and Ridge regression techniques belong to
	Ans) Regularization
•	To overcome with imbalance dataset which technique can be used
	Ans) Cross Validation
•	The AUC Receiver Operator Characteristic (AUCROC) curve is an evaluation metric for binary classification problems. It uses to make graph?
	Ans) TPR and FPR
•	In AUC Receiver Operator Characteristic (AUCROC) curve for the better model area under the curve should be less.
	Ans) True
•	Which of the following is true about Normal Equation used to compute the coefficient of the Linear Regression
	Ans) We don't have to choose the learning rate.

Regularization:

Regularization refers to techniques that are used to calibrate machine learning models in order to minimize the adjusted loss function and prevent overfitting or underfitting

• Which particular algorithms are used for regularization

Ans) Ridge(L2) Regularization

Lasso (L1) Regularization

Explain the term error present in linear regression equation

Linear regression most often uses mean-square error (MSE) to calculate the error of the model. MSE is calculated by:

- 1. measuring the distance of the observed y-values from the predicted y-values at each value of x;
- 2. squaring each of these distances;
- 3. calculating the mean of each of the squared distances.

Linear regression fits a line to the data by finding the regression coefficient that results in the smallest MSE.