Machine learning Assignment.

	e following methods do we use to find the best fit line for data in Linear Regression?
	Least Square Error e following statement is true about outliers in linear regression?
	Linear regression is sensitive to outliers.
· · · · · · · · · · · · · · · · · · ·	from left to right if a slope is?
Answer-B) Negative Answer-C) Both of	
variable? Which of	wing will have symmetric relation between dependent variable and independent he following is the reason for over fitting condition? Low bias and high variance
	abel then that model is called as:
	el B) Predictive modal
,	ement learning D) All of the above I Ridge regression techniques belong to ?
	Regularization
· · · · · · · · · · · · · · · · · · ·	ome with imbalance dataset which technique can be used?
	Cross validation
classification	r Operator Characteristic (AUCROC) curve is an evaluation metric for binary n problems. It uses to make graph? TPR and FPR
10. In AUC Receive curve shoul Answer-B)	
· · · · · · · · · · · · · · · · · · ·	feature extraction from below:
	Construction bag of words from a email
12. Which of the fol Regression?	owing is true about Normal Equation used to compute the coefficient of the Linear
,	t have to choose the learning rate.
B) It becomes slow	when number of features is very large.
13. Explain the term	regularization?

Answer-Regularizations are techniques used to reduce the error by fitting a function appropriately on the given training set and avoid overfitting. It is also used for tuning the function by adding an additional penalty term in the error function.

14. Which particular algorithms are used for regularization?

Answer-Regularization refers to a set of techniques that help the machine to learn more than just to memorize it There are mainly 3 techniques or algorithms used namely

- 1. 1. Ridge Regression (L2 Regularization) 2 lasso(L1 Regularization)3 Dropout
- 15. Explain the term error present in linear regression equation?

Answer-The error term in a regression equation represents the effect of the variables that were omitted i.e excluded from the equation