Machine Learning

1) a) Least square error
2) a) Linear regression is sensitive to outliers
3) b) Negative
4) c) Both of them
5) c) low bias high variance
6) c) Reinforcement learning
7) d) Regularization
8) d) Smote
9) c) Sensitivity and specificity
10) b) False

Assignment -2

13) 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. Using Regularization, can fit our machine learning model appropriately on a given test set and reduce the errors in it. This technique discourages learning a more complex model, so as to avoid the risk of overfitting.

14) Ridge Regression (L2 Norm) Lasso (L1 Norm)

15) It refers to the sum of the deviations within the regression line, which provides 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. Basically term error represents the margin of error within a statistical model.