**Assignment 5**

1. What are the reasons for feature scaling?
2. What is the difference between Feature Selection under Feature Engineering? Can you perform feature selection using regularization, if yes then how?
3. Suppose you are working on a Machine Learning problem, your training accuracy is lower than the testing accuracy, what can be the reason for this?
4. You are training a machine learning model, your training and the testing accuracy are decreasing, what can be the reason for this?
5. What solutions you can provide for optimal bias-variance levels in a machine learning problem?