

## **Assignment 4**

1. What is supervised learning? Explain classification and regression in supervised learning. Give any three examples of Supervised learning.
2. Explain classification steps in detail.
3. Discuss the kNN model in detail. (with its advantages and disadvantages and algorithm)
4. Discuss the Support Vector Machine model in detail. (with its advantages and disadvantages)
5. What is dependent variable and independent variable in a linear regression?
6. What is simple linear regression? Give one example.
7. Explain multiple linear regression with example.
8. What is polynomial regression?

