

**All the assignments should be implemented using Python and supporting modules/packages/frameworks.**

1. Create a file named StudentDetails.csv with Name and USN as columns. Write a Python program to read this file and output the contents. Replace the missing data (if any) and print the data read.
2. Practice the examples at [https://www.w3schools.com/python/python\\_ml\\_getting\\_started.asp](https://www.w3schools.com/python/python_ml_getting_started.asp) to implement the basic concepts in machine learning **(First two weeks)**
3. Implementation of linear regression
4. Implementation of gradient descent
5. Implementation of logical gates with single layer perceptron.
6. Implementation of Artificial Neural Network (ANN)
7. Implementation of Convolutional Neural Network