Lab work

1. Explain some Machine learning Python libraries like pandas, Numpy, Matplotlib, Sklearn etc.
2. Using Pandas and matplotlib libraries import and explore your dataset and use some statistic functions on them and plot the different graphs (bar graphs, pie-chart).
3. Write a python program to create a neuron and predict its output using the threshold activation function.
4. Implement Backpropagation algorithm to train an ANN of configuration 3 inputs node 2 hidden nodes 1 output nodes. And it takes inputs (1, 0, 1) and output will be 1.
5. Write and implement Linear Regression using Sklearn library in python.
6. Implement backpropagation algorithm
7. Write and implement Logistic Regression using Sklearn library in python.
8. Write and implement SVM using Sklearn library in python.
9. Write a program to implement k-Nearest Neighbour algorithm to classify the iris data set.
10. Write and implement k-means Clustering Using Sklearn Library in python.