

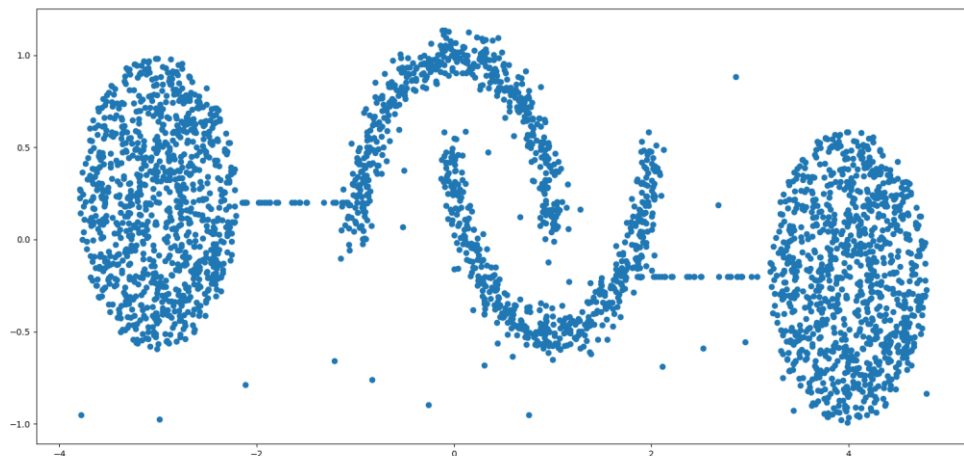
BT3041 – Analysis and Interpretation of Biological Data

Assignment

1. Implement Multilayer Perceptron for classifying the given MNIST dataset. The given dataset contains 800 training data and 200 testing data. Train the network and plot the loss and accuracy for the training and testing datasets.

Write a report on the following things:

- a. Network architecture
 - b. Activation functions
 - c. Loss function
 - d. Learning Algorithm
 - e. Learning Rate
 - f. Loss and accuracy for testing dataset.
2. Implement dbscan algorithm to cluster the given 2000 datapoints. Report the right parameters to get four clusters and plot the clusters.



For each assignment submit the code (MATLAB or Python) along with the report.
Due date: August 7, 2020.