ML Lab (CS360)

Assignment 11

Total Marks: 30
Submission Deadline: 09/11/2023

1. Implement a BPNN model by using own code. Consider the following to design the network:

   Marks: 20

   a. Two input nodes, two hidden nodes and two output nodes.
   b. Values of the input nodes are 0.3 and 0.8 respectively. Values of the output nodes are 0.05 and 0.6 respectively.
   c. The weights values from input-hidden layers are 0.1, 0.3, 0.25, 0.8.
   d. The weights values from hidden-output layers are 0.2, 0.6, 0.4, 0.7.
   e. The activation to use is the Sigmoid activation function.
   f. Bias is 1 for input and hidden layer.
   g. Learning rate to consider are 0.5, 0.1 and 0.01.

2. Implement the same as in (1) using the in-bulit library functions BPNN and validate both the results. Marks: 10