

20171104- Pset 18 - Q3

Accuracy of MLP classifier with 2 hidden layers of size 1000 each = 99.5%

Accuracy for hidden layers of size 10 each = 99.5%

Accuracy for hidden layers of size 2 each = 95.5%

While building a neural network, we start with more parameters & gradually remove some. This is because

Neural Networks are generally overparametrized. An

MLP classifier with hidden layers (1000, 1000) gives same accuracy as classifier with layers (10, 10) but requires more time, memory and training data.

\therefore NN of size (1000, 1000) is not effective as we get same results with size (10, 10).