## ITF31519 - Assignment 2

Tobias Hallingstad October 13, 2021

## 1 Default values

I am basing the MLPClassifier on some default values. Thease values are used if no other value is sepefied: randomState = 1, maxIter = 300, nLayers = (100,)

## 2 Observations

Number of nodes I did some testing on what effect the amount of nodes have on the model. I wrote a function (plotMulti2()) to run multiple itterations of the model (with different number of nodes), then plot the resoult in a bar diagram. Here I run 15 diffrent models, where i increase the ammount of nodes in the first layer.

Here I can see that afther 8 nodes there is litle change in the score.

Numer of hidden layers Afther testing how many nodes in 1 layer looks good. I proseeded to test how many hidden layers I can use with 8 nodes in. For this I uesd the plotMulti3()

Accuracy