eBNN on MNIST Dataset

In the mnist\_data.h there are two arrays which are train\_data and train\_labels.

Train\_data array size is 15680 and it represents the weigthes of the binary neural network.

Train\_labels is the array consist of numbers we want ebnn to predict. Train\_labels array size is 20.

Mnist dataset consist of numbers between 0-9 with the size of 28x28 grayscale images.

# pictures we want to predict=20

# pixels in 20 picture= 20x28x28=15680

# weightes for 20 picture (for each pixel)= 15680

In the below picture, eBNN’s accuracy is 85%.

