Epoch [1/5], Average Loss: 0.0029

Test Average Loss: 0.0015

Epoch [2/5], Average Loss: 0.0012

Test Average Loss: 0.0010

Epoch [3/5], Average Loss: 0.0008

Test Average Loss: 0.0008

Epoch [4/5], Average Loss: 0.0006

Test Average Loss: 0.0007

Epoch [5/5], Average Loss: 0.0004

Test Average Loss: 0.0007

Accuracy of the network on the 10000 test images: 97.83 %





2.

As we can see from the plot, our model can be considered as a Robust to the choide of a seed number, as the Std considerably is very small – (?) and we can observe that all error at the last epoch are very close to the average.



Mean test error for last epoch: 0.0008392164221645246

Standard deviation for last epoch: 0.00011463408992920227

3.

Using 5 Seeds and 20 epochs:

Minimum validation error: 0.0007723440124653279

Minimum validation error epoch: 6

Minimum validation error seed: 1

Test error for minimum validation error: 0.0006534