

MNIST Classifier

epoch	training accuracy	training loss	training error	validation accuracy	validation loss	validation error	learning rate	time	test accuracy	test loss	test error
1	0.9384	0.16	0.1599	0.976	0.0725	0.073	0.001	389			
2	0.969	0.026	0.0452	0.9782	0.0662	0.0683	0.001	774			
3	0.9757	0.041	0.054	0.9796	0.0613	0.063	0.001	1157			
4	0.9786	0.0419	0.0564	0.9818	0.0551	0.0573	0.001	1562			
5	0.9811	0.0627	0.0449	0.983	0.0493	0.0519	0.001	1971			
6	0.9818	0.0686	0.0682	0.9848	0.0432	0.0461	0.001	2381			
7	0.9843	0.0417	0.0444	0.9868	0.0397	0.0423	0.001	2790			
8	0.985	0.0198	0.0312	0.987	0.0367	0.0388	0.001	3200			
9	0.9847	0.0044	0.0085	0.987	0.0339	0.0357	0.001	3606			
10	0.9863	0.0488	0.028	0.9878	0.0316	0.0327	0.001	4066	0.9962	0.0136	0.0118
11	0.9871	0.0147	0.0222	0.9898	0.0303	0.0306	0.0009044	4473			
12	0.9873	0.0243	0.0318	0.9904	0.0294	0.029	0.0009044	4880			
13	0.9885	0.017	0.0249	0.9906	0.0286	0.0283	0.0009044	5354			
14	0.9889	0.0254	0.0319	0.9908	0.0283	0.0274	0.0009044	5765			
15	0.9877	0.0267	0.0249	0.9906	0.0275	0.0267	0.0009044	6174			
16	0.9897	0.0346	0.0367	0.9906	0.0268	0.0259	0.0009044	6583			
17	0.9898	0.0203	0.0354	0.9908	0.0257	0.0248	0.0009044	6992			
18	0.9904	0.0089	0.0161	0.9912	0.0255	0.0245	0.0009044	7401			
19	0.9916	0.0916	0.037	0.9912	0.0251	0.0238	0.0009044	7811			
20	0.9917	0.0371	0.0257	0.9908	0.0255	0.0237	0.0009044	8274	0.9966	0.0117	0.0093

Image mX4 FThreadNN[0].DebugWeights(); skipped...

Starting Testing.

Epochs: 20 Examples seen:1200000 Test Accuracy: 0.9966 Test Error: 0.0093 Test Loss: 0.0117 Total time: 137.90min

Epoch time: 5.9000 minutes. 20 epochs: 2.0000 hours.

Epochs: 20. Working time: 2.30 hours.

CAI maXbox Neural Fit Finished.

mnist classifier done...

mX4 executed: 19/11/2021 16:43:30 Runtime: 2:18:1.308 Memload: 46% use