

All the metrics were calculated using 1000 validation data.

mnist with 5 epoch and 500 iterations learning rate = 0.001

Epoch	F1 score	Accuracy	Cross Entropy Loss
0	0.018	0.099	2.315
1	0.023	0.135	2.299
2	0.018	0.098	2.304
3	0.017	0.095	2.304
4	0.018	0.103	2.303

mnist with 5 epoch and 500 iterations learning rate= 0.1

Epoch	F1 score	Accuracy	Cross Entropy Loss
0	0.0194	0.108	2.3011
1	0.0219	0.123	2.2997
2	0.0178	0.098	2.3033
3	0.0193	0.107	2.300
4	0.019	0.107	2.3035

cifar10 with 5 epoch , 25 iterations, learning rate = 0.001

Epoch	F1 score	Accuracy	Cross Entropy Loss
0	0.0186	0.103	2.7141
1	0.0194	0.108	3.0747
2	0.0191	0.106	2.4250
3	0.0215	0.121	2.3711
4	0.0204	0.114	2.3145

cifar10 with 5 epoch , 25 iterations, learning rate = 0.1

Epoch	F1 score	Accuracy	Cross Entropy Loss
0	0.01735	0.095	2.4481
1	0.01867	0.103	2.3782
2	0.0185	0.102	2.3488
3	0.0178	0.098	2.3591
4	0.020	0.114	2.327