

ASSIGNMENT-2 REPORT

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1 Part-A

Weight Decay Parameter	Training Loss	Validation Accuracy	Test Accuracy
0	0.104	94.96%	54.48%
0.00001	0.120	96.31%	55.09%
0.0001	0.0004	100%	61.54%
0.001	0.152	96.62%	57.93%
0.01	1.291	64.77%	53.87%
0.1	3.169	12.81%	13.03%

- All experiments done with 40 epochs.

We see that with the increase in the value of weight decay parameter, initially the loss decreases (i.e., convergence is observed) but on further increasing the parameter, convergence takes a lot of time and this leads to lower accuracy and higher training loss.



