

DD2424 Assignment 1 Bonus

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April 4, 2022

1 Exercise 2.1

1.1 a

I was using all 5 batches of training data for all of the above runs, with the validation set consisting of the first 1000 entries in the test set, and the rest being the test set.

However, in order to assess the improvement this change made, I will compare the final test accuracy for a network trained on all batches with the test accuracy of a network trained on only one batch.

1.2 $\lambda = 0$, $\eta = 0.1$

Final test accuracy all batches: 0.3027

Final test accuracy batch 1: 0.3064

1.3 $\lambda = 0$, $\eta = 0.001$

Final test accuracy: 0.4097

1.4 b