Dear Weizhi,

Here are some grading criteria for your consideration. The assignment is worth 10 points. A student’s script need not be perfect with respect to the following to get a high score (say 9.5 out of 10). You can decide on the points associated with the following categories.

[1] Please identify 2 or 3 best submissions, rename their html as HW-1-student\_name.html , and place those html in this directory.

[2] Please record grades on Canvas.

[A] Please check that the betas are shown in either the right order or clearly labeled order

beta = XXX

RSS = 19.25635114667625

[B] sample answer below and shown in Q, students’ answer will vary, you may assign credits to how close their algos get to the theoretical values in [A]

b1. The smallest loss your network is able to achieve

19.25650713642234

b2. The corresponding learning rate

XXX

b3. The corresponding estimated ”optimal” weights. Please check that the betas are shown in either the right order or clearly labeled order

XXX

>> Important

Please verify the answer in (b3) is consistent with the answer in (b1), take points off if they do not agree.

For your convenience, I have uploaded my spreadsheet to the folder in case you need a calculator.

b4. The corresponding number of updates when your network reaches the ”optimal” estimates

XXX

b5. A plot of the final 50 (or a reasonable number of) updates of the loss values vs the update

number

Sample answer shown in Q

Thank you very much!