Discussion on the Project of Running Stochastic Gradient

Last updated: March 14, 2021
In writing any statement you need some scientific support. Otherwise don’t write it.

Some reports are well written, but some are not.

Try to pay attention on writing your results. In particular, the organization and the workflow of your report.

It is not good to start a report with results. Some explanation/introduction should be given first.

If you show timing results, probably you should give details of your computing environments.
Some reported that the running time per epoch of MNIST is slightly longer than CIFAR10, but some reported the opposite. Besides the first layer, we use the same network architecture on them. Thus we have that the input image of CIFAR10 is larger than MNIST, but the number of data in CIFAR10 is smaller. Other issues (e.g., OS, etc.) may also affect the running time.
You shouldn’t have something called “checkpoint with the highest validation accuracy”

Note that we don’t have a separate validation set

The issue of seed:

- The page said that the default seed is 0
- But in fact the program doesn’t set a default seed
Typically your score is between 70 and 90
If yours is outside this range, either you are very good or need lots of improvements.
I may write some comments on your report. A copy of the gradded report will be emailed to you.