PA1 Progress

Coordinator Node:

- communication in training between the coordinator and compute nodes
- In train() steps, we've implemented all the steps except considering the conditions of concurrent running of multiple compute node (such as using mutex to prevent race condition.)
- Scheduling policy has not been implemented.
- Coordinator scheduling: Rejecting task and injecting load have not been implemented.

Compute Nodes: done

Client: done

Design Document: not yet

Phase 1 result:

Using the following parameters:

training filename = "train_letters1.txt"

k = 26

h = 20

eta = 0.0001

epochs = 75

rounds = 1

Validation error is 0.789714

vang8919@csel-plate01:/home/yang8919/PA1-bai10416-yang8919-yahui/client/build \$./client csel-cuda-02 5105 /home/yang89 PPA1-bai10416-yang8919-yahui 1 75 Connected to server! Validation error: 0.789714 Connection closed.

Use of Al Tools: part of the thread_func in Coordinator_server.cpp is generated from OpenAI.