

Homework 1 Report

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This report is used to ensure that TAs can execute my file successfully and read codes clearly.

1 Execution

1. **Environment** macOS 10.15.6, clang 11.0.3, GNU Make 3.81
2. **Language** C++11
3. **Execution**

(a) Makefile

```
1 cd b07611039
2 make # compile train.cpp and test.cpp
3 make clean # clean execution files
```

(b) Train and Test

```
1 ./train <iter> <model_init_path> <seq_path> <output_model_path>
2 ./test <models_list_path> <seq_path> <output_result_path>
```

2 Results

1. The accuracy is about 0.8467 when the iteration is 100, and it increases to about 0.8544. It may indicate that when increasing the training iteration, the accuracy will increase as well and eventually be convergent at an upper accuracy.
2. I think the model can be regarded as a good model with over 80% accuracy.