Digital Speech Processing

Homework 1 - HMM

R04922058 鄭以琳

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1 Execution Environment

• Environment:

Linux Ubuntu X86 64

- Compile:
 - \$ make clean
 - \$ make all
- Execute:
 - \$./train iteration model init.txt seq model 01.txt model 01.txt
 - \$./test modellist.txt testing_data.txt result.txt

2 Result

• Parameters:

Iteration = 2000
Initial model = model_init.txt

• Accuracy:

Accuracy of testing data1.txt = 0.8696

3 Experiment

I built the models with different numbers of iterations and calculate the accuracy of testing_data1.txt. The result is shown below:

# Iterations	10	50	100	300	500	1000	1500	2000	2500	3000	3500
Accuracy	54.08	82.8	81	84.88	85.6	86.96	87	86.96	86.8	86.76	86.76

