

# Liu Yibin' s Personal Log

- 2018.10.30:

We have started our project yesterday. And we have a meeting with our supervisor today. He told us we could start learning the basics of android development and machine learning.

- 2018.11.2

We wrote some document like team contrast. And I start to watch Android development video tutorial.

- 2018.11.7

We have done scope document and risk analysis. As the entrance examination was approaching, I didn't spend much time on the graduation project, but I was able to make my first android program. Hello World!

- 2018.11.10

We took around 2 days to finish changing management plan making.

- 2018.11.14

Because there was only one month left for the entrance examination, I temporarily stopped learning theory and technology. However, the preparation of the literature did not stop. We completed the Gantt chart and the final proposal.

- 2018.11.30

It has been half a month since I started to build the model on 15th.

This step is really a little difficult for me, but thanks to the help of my team members, I have completed it successfully.

- 2018.12.6

We start to preprocess data, including conversion and merging. This is expected to take us a week to complete.

- 2018.12.13

We already finish preprocessing data. Next, we will start normalizing processing. According to the plan, we will finish it in a week, but I cannot guarantee that the work can be completed as expected, because the exam will be held in half a month.

- 2018. 12.25

Because my work has been put on hold during the exam period, now the exam is over. We can catch up. The normalization (the part I take responsibility) that was originally expected in 20 has been delayed until now.

- 2018.12.28

We started reading the literature including CNN algorithms and some android development. The previously suspended android video tutorial also continues.

- 2019.1.7

We got involved in information consolidation. At the same time, we

exchange theoretical knowledge and share the key points in our study.

- 2019.1.15

We look for the appropriate TensorFlow or Keras model. And we have a general understanding of the basic theory of machine learning.

- 2019.1.21

After selecting the model, we optimized and modified it. Of course, we know that this model is not necessarily the final product, and we will look for and compare better models during the learning process.

- 2019.1.25

After several days of optimization, we began to test the model on 25th. I hope the test goes well. At the same time, we have completed some basic functions of android application. For example, login and registration function.

- 2019.2.1

The Spring Festival is coming, the group members will go home for the Spring Festival. We rescheduled the tasks according to the progress, so that everyone was assigned tasks suitable for them. Also agree to keep in touch during your vacation to share progress and problems.

- 2019.2.8

As the holidays began, we optimized the features of our android

application. The biggest change is the user interface. The previous color scheme was very harsh, so I didn't pay special attention to it because it was a trial. However, after this change, the user interface became more user-friendly and good-looking.

- 2019.2.13

We agreed to hold a meeting every Wednesday during the holiday to exchange the knowledge we learned every week and the progress of our work. On the 11th, we discussed how to optimize the functions of android apps.

- 2019.2.19

Our supervisor helped us done with model implementation design. Android apps are being optimized again. This time is mainly the optimization of the food name retrieval function, which is expected to be less time-consuming and more accurate.

- 2019.2.26

We started coding the rest of the android app functions, the food library, and so on.

- 2019.3.3

We completed the food search, food museum and healthy lifestyle recommendations. The rest of the diet-recording function is still being written, which is harder than the others. We began to prepare reports for the mid-term defense and to sort out the previous

meeting materials and so on.

- 2019.3.7

Today is the mid-term defense. We reported the progress of the program. After communicating with the teacher, we decided to change our focus and pay more attention to the development of android program. Plan to intensify the development of diet function.

- 2019.3.12

We started testing the existing functionality of the program and started collecting data for writing documents. I hope the test goes well.

- 2019.3.20

We have completed the final diet recording function and intend to start the test and optimization of this function.

- 2019.3.26

We carried out questionnaire survey and user experience survey, hoping to obtain public opinions on our project in this way for improvement.

- 2019.4.1

We analyzed the results of the questionnaire and further optimized and improved the application functions according to the user feedback.

- 2019.4.3

We conducted a second user experience survey. The respondents were ordinary college students.

- 2019.4.7

We analyzed the second user survey and found that most users were satisfied. So, we started to prepare for the mid-term defense, hoping to pass it smoothly.

- 2019.4.13

We kept preparing for the final report, including collect previous meeting minutes.

- 2019.4.19

As we prepare for the final defense, we began to review our theoretical knowledge.

- 2019.4.25

Entering the final phase, I started writing self-reflection report.

- 2019.5.6

I have finished my self-reflection report, but a little of nervous about my final defense.