电子科技大学
格拉斯哥学院
Glasgow College, UESTC

Logbook

From: 30/10/2021 To: 7/1/2022

Month	**List the main activities** (only few words per activity)	**Interaction with the supervisor**			**Any other form of supervisory interaction** (second supervisor, industry, fellows etc.)
		Number of meetings	Mode of meeting (face- to-face, online e.g., Skype, WeChat etc.)	Number of emails exchanged	
2021.11.	1. Learning the theory of YOLOv5. 2. Collecting the data set and label. 3. Finding the open-source code on github.	2	Email and face-to-face	4	Work with another student who did the similar project with me Yuhua Nie, and discussed about the task.
2021.12.	1. Training the model and get the weight value. 2. Testing the effect and obtaining the first version of the model.	2	Email and WeChat	3	Discussed about the model effect with a postgraduate, and got some advice from her.
2022.01.	1. Interim report writing 1. Deciding the work to be done in the next stage.	1	Email	2	

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Logbook 2

2021. 11. 5. I searched two relating references about the face detecting network, and they concerned YOLOv5 and ~~Fast R~~ Fast R-CNN are the ~~two~~ most two commonly network ~~used~~ used in this area. Compared with the performance of those two networks, I decided to use YOLOv5, which can have better ~~an~~ performance in real-time objects detection.

2021. 11. 15. I contact with ~~the~~ prof. Qi, and decided to ~~collected~~ collect the data set by myself instead of download the public data set online.

2021. 11. 20. I collected 1000 photos, most of them are my classmates, teachers, friends, ~~family~~ family members or other people related to me. After that I used ~~Labels~~ Labeling tool to mark the faces in the ~~xx~~ photos manually. The whole work cost me 5 hours.

2021. 11. 25. I find a public ~~source~~ source code to help me save the data of my ~~label~~ labelling and transfer the file format to txt, which is adapt to the python. I have already finished the preparation for the model trainning so far.

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2021.12.3. I decided to ~~start~~ trainning, ~~however~~ however, the system continuely warned me that my computer lack of some deep learning environment, but I tried for nearly a night, and the problem ~~still~~ is still unresolved.

2021.12.5. I contact with a postgraduate, and after her advice, I successfully configured the environment required for training. Then I found the ~~the~~ code for YoLo v5 s5.0 on the github, and ~~start~~ trainning.

2021.12.6. The ~~computer~~ computer trainned for more than 11 hours, and finally the trainning precision and recall rate is approach 1, which seems the effect is well.

2021.12.15. I used this model to do some tests, and found that although ~~sometimes it~~ sometimes it would make some errors, it ~~has~~ has already achieved the fundemental requirement of this project.

2021.12.20. I ~~presented~~ presented my results to prof. Qi and the postgraduate, and received some feedback, I still need to improve the precision of the model.