In this final project, I do learn a lot. Because this is an exploratory task, the success or smooth process is not guaranteed. Facts have also proved that we also encountered many unexpected difficulties in the whole process.

In this project, I think the most important thing I learned is that feasibility study should be carried out before the project starts. Before the meeting, our idea is to do an analysis of ECG images, and then temporarily decide to change it to the analysis of mood and weather during the meeting. Now I think that such a decision is indeed relatively hasty: at least it should be made after looking for relevant research. Later, when looking up relevant research (not based on Data Science), we found that the correlation between the two data was really not high, which may be an important reason for the failure of our project.

Of course, I also learned a lot of tips from this project. Although these little techniques seem insignificant, they do play a great role. For example, add a progress bar when performing large-scale computation: When doing NLP, because of the huge amount of data, we thought that such computation would last on the local computer for a long time, so after writing the code in the evening, we let the computer perform overnight computation. But when we got up in the morning, we found that the computation was still not completed, and we didn't know whether it was because the intermediate process was stuck or because of the computing speed of the computer is low. We can only terminate the program and migrate the computation to the colab. Of course, a progress bar has been added. This time, the computation took only 40 minutes to complete. This also means that we wasted a night because of the lack of progress bar. Otherwise, the problem will be spotted immediately.

I think this kind of homework is really valuable: it brings me many new perspectives which can't be obtained in a pre-designed homework.