

U3145190 Jacinda Zou

week 9 5 Apr 2023

Looking for a dataset that can be used for my project.

week 10 15 Apr 2023

I picked the student performance dataset for the project and got rejected.
Keep looking for another dataset that can be used for my project.

week 11 19 Apr 2023

I picked another dataset, the shop customer dataset and got approved.
Then I started working on the project, reading the material and the template to understand the approaches and outcomes.

week 12 26 Apr 2023

During the tutorial, I reported to my tutor about my current project status and followed the steps that the tutor showed us. I connected to Google Colab and started working on the EDA and PDA for the shop customer dataset. I am amazed at what the Panda and Matplotlib packages can do with the dataset.

week 13 1 May 2023

I followed the lecture and built my best model for the algorithm to predict the valued customer. Since the valued customer is based on the spending score column, which has more than 100 unique values, I decided to add a new column named `valued customer` that only has more than 50 spending scores as 1 and a less than 50 spending score as 0. The algorithm accuracy outcome was excellent.

week 13 3 May 2023

I presented my work during the Presentation session with the class. However, I started to feel that my algorithm might have a false positive since it looked perfect compared with other classmates' work.

week 13 5 May 2023

While implementing the Tkinter program, I finally realised that I accidentally fed the wrong data, spending score, to the model, which led to the perfect outcome. I corrected the algorithm and then reran the code. The updated result looks much more realistic.

However, after I finished the coding for the Tkinter program, it crashed on my machine when I tried to run it. I uploaded it to my Github and asked my tutor for help.

week 14 10 May 2023

My tutor was super nice and helped me check the issue. It turned out my machine could not run the code because of the system and environment settings, and it works fine on her side.

I updated the PPT and report to use the updated algorithm and the charts, the accuracy performance of the final model looks a bit disappointing, but machine learning needs way more data to train than what I have (2000 data in total).

week 14 12 May 2023

I submitted my report and presentation slides and uploaded them to my Github.