Team:

- Feras Aljoudi
- Ihab Mohamed
- Seonyu Park

Supervisor:

- Professor Yogesh Sharma

Date: Oct. 07, 2024

P: Are you guys planning to do a CNN based model?

T: Yes, this is the plan.

P: How are you planning to use the model in the Raspberry PI?

T: We will train the model in our AMD machine first, then when the model is trained, we will move it to the RPi and convert it to ARM.

P: Do you guys have the Rpi already or will you buy it, and is RPi5 the most recent one?

T: We as a team will buy the RPi5, which is the most recent one, and other components like the Rpi camera, Rpi box and fan.

P: There should be resources to help students buying stuff for the project, so ask Adam for the providing resources.

P: Do guys have experience in training machine learning models?

T: Yes, we took ENSE 412 last winter with Dr.Yow, where we learned and experienced how to train and work with machine learning models in the class and the lab.

P: What tools and platforms will be used?

T: pyCharm which works good for python, and OpenCV for capturing the eye in the face.

P: Where will you get your data source/data set?

T: We checked Kaggle already and it looked like there are a lot of sets for the face and the eye open/close.

P: Are you planning to build any app or website?

T: We thought that the app would be pointless in our scope since the goal is to monitor the eye of the driver and the driver is not supposed to use the phone while driving and be distracted.

P: That's true, there is no need for an app in this case.

P: Do you think you will have a bottleneck throughout the project?

T: The only thing we are worried about is having a delay in the result when the model gets converted to the Rpi due to its power limitation. However, we watched a couple youtube videos and we found out that there are ways around that and it should be doable.

P: I think the project is doable, and I will be there to help and answer any questions. Now you guys should think of what project management methodology you will be using and how often we will be meeting.