CSCI 5525 – Advanced Machine Learning (Spring 2023)
Self and Project Group Review Rubric

Please use the following rubric as you do your self review and project group review. Reminder, you must submit this to earn a grade on your final project report. Note, you will be submitting this individually (not as a group). The TAs and I will be the only ones to see your comments and will not share them with anyone. So please be honest and fair in your comments.

Self Review - Noah Hendrickson
What were your contributions to the project? Please be specific.
My contributions to this project included:
- Working on reports alongside my two other group members a pretty roughly equal amount
- Implementing the GoogLeNet, LeNet, and finding the Residual Masking Network to test with
  - I did not have the idea for the LeNet, just implemented it
- Had the idea for the peak-end weighting portion of the video score weighting
- Collecting some of the videos that we used to test on
- Writing the code to test our models on those videos, including the reading in of the videos and the weighting of the scores from each frame

What did you do well in the project and for the group?
I think I did well on finding different models to test for our idea as well as coming up with ideas on how to actually determine the score finding portion. I think that it turned out well on that front. I think I also did well on communicating to the group just kind of in general.

What could you have done better in the project and for the group?
I probably could have been more on top of getting things done in a timely manner. I'm not always the best at managing my time, especially when I have 4 other CS classes worth of work to deal with, so there were points where I was definitely a bit slow to get to things and that possibly dampened my own work a bit. I also probably could have explored implementing more models to test or methods of weighting the score to be more accurate, i.e. utilizing some sort of transformer architecture for the emotion detection or even perhaps something with zero-shot learning. (i.e. using CLIP–I really only had that idea this weekend which is really unfortunate)

Any additional comments?
I really appreciated the help that my other group member, Eric, provided over the course of the project and the good attitude he had the whole time, even when our third group member just kind of dipped at the last minute. I also had a really fun semester in this class and appreciate all the work you guys put into it! 🙂 I hope that I can use some of the things that I learned over the course of this semester in my internship this summer!

Group Review – Eric Trempe

What did Eric contribute to the project? Please be specific.

Eric's contributions included:

- Coming up with the idea in the first place to do satisfaction scoring using emotion
- Working on reports a roughly equal amount
- Coming up with the idea for the NRC/AFINN lexicon scores for the emotions and how to apply those
- Hyperparameter testing for the LeNet and GoogLeNet models
- Providing some of the videos that we tested on
- Doing some testing himself (though he had his own colab notebook for that so I didn't see EXACTLY what it was)

What did Eric do well in the project and for the group?

Eric was pretty much on top of things as much as I was. He communicated well with us and had good suggestions for things to try when we met up. He took initiative with finding the AFINN/NRC lexicon values as well as the hyperparameter tuning and had a lot of the good ideas for the report writing–he really refined them to make them much better. He didn't hesitate to say if something wasn't working or if he didn't like something in something we were doing and that really helped a lot. He provided some really helpful suggestions as to the direction we should take the project. He's also just a cool guy!

What could group member 1 have done better in the project and for the group?

I think that we both had the same issue of getting things done in a timely manner. We both probably could have done better on that. I guess he also could have helped a bit more with the actual model building and training, but, as a group, we didn't really split up work like that so I can't fault him alone, or really at all, for that.

Any additional comments about Eric?

Like I said in my additional comments, I really appreciated the help that he gave over the course of the project!

Group Review – Louis Wang

What were Louis' contributions to the project? Please be specific.

Louis' contributions included:

- Working on the reports up to and including the paper review a roughly equal amount.
- Suggested we should use some form of LeNet for one of the models
- Implementing some sort of face detection model?
    - I don't know the specifics because he never shared it with us 🙂

What did Louis do well in the project and for the group?

He did well in communicating with us for the first bit of the project. He helped in some suggestions for what our project should look like and had the idea for the face detection leading into the emotion classification which would have helped testing. He also had some of the best ideas for the various papers that we wrote over the course of the project.

What could group member 2 have done better in the project and for the group?

I think the most obvious one is not leaving us to do all the testing and report writing and presenting at the end, but that aside he could have also communicated a little bit better overall. He was a bit slower to respond to messages and didn't really let us know what was happening too much, though he did always meet up with us when we decided to. He could have also taken more of an initiative in actually developing things for the project. He did say he would take the face detection portion but he was done with that pretty quick then just kind of didn't do anything after that. He didn't really even have many suggestions for what approaches we should take overall, more of which would have been appreciated.

Any additional comments about Louis?

No.