

## BME 548L: Machine Learning and Imaging - Final Project Instructions

### Due dates:

- **Code and presentation slides due via e-mail on Thursday, May 2 by 5pm**
- **Research paper, webpage, permission form and participation grade due via email by Saturday May 4 at 11:59pm**
- **Presentation times during final exam time: 7pm-10pm on Thursday May 2.**
- **These will be held in person in the same room as used for the class lectures. A sign up sheet for time slots will be shared.**

Below are the general instructions about the final project that I went over in class. For the submission, it'd be great if you could include all relevant parts in a folder, zip it up, and email it to myself ([rwh4@duke.edu](mailto:rwh4@duke.edu)), Amey Chaware ([amey.chaware@duke.edu](mailto:amey.chaware@duke.edu)) and Xi Yang ([xi.yang@duke.edu](mailto:xi.yang@duke.edu)). Part 7 can be sent in a separate email if you are working in a group.

You can include links to your code on Github (Part 3) or Google CoLab, but please make sure we have access/permission to see the code via the link. Preferably, please directly submit any Python (.py), Python notebook (.ipynb) or any other code that you have written for the final project. In addition, please feel free to include the annotated data that you used, or a link to the annotated data that you used (optional, Part 6), in the email that you send us.

Final project total grade %: 38%

Part 1: 7.5-minute presentation (share slides afterwards) – 10% (of total grade)

- **Please send these slides to me by Thursday, May 2 by 5pm, so I can get prepared to and organized with all of the slides in order for the final presentations the next day.**
- The format of the presentation should be in .pptx or .pdf
- You will present the slides in the class on the projector, and I'd like to get them up and organized beforehand, which is why I'd like them submitted shortly before the presentation slot.
- You should practice, especially if you are working as a team or group, beforehand
- There will be a 1-3 minute question period after each presentation.

Part 2: share code for submission – 4% (of total grade)

- **Please share the code with me by Thursday, May 2 5pm. This helps prevent teams from “coding until the last minute”, without leaving enough time to perform analysis and to write-up the final report.**
- Please put all of the code you wrote and used for the final project into the .zip folder. You can also share the code via a link, e.g. if you prefer to use Github, but please make sure we have access to the linked code.

Part 3: 4-6 page write up with at least 3 figures and 5 references – 20% (of total grade)

- **This and the rest below are due before Saturday May 4 at 11:59pm**
- This should include an abstract, introduction, related work, methods, results, discussion
- I've included a Latex template that you can use if you'd like (see link on webpage)
- The format of the paper should be in .pdf (preferred) or .docx

Part 4: website template – 4% (of total grade)

- I have included a link to a website template that you can use to share to your results.

Part 5: permission to post website template and/or data online – 0%

- We plan to post these projects up online for others who are taking next year's class to see, for example.
- If you're ok with me putting making a link to your project website public, or "public" within Duke, please indicate
- If you're ok with giving only me/me and others access to your dataset, please indicate

Part 6: (optional) Access link/file for dataset – 0%

- If you indicated that you are open to sharing your dataset with me and/or others, please include a link to the dataset that you used.

Part 7: (please e-mail me separately) Self-selected participation grade – 8% (of total grade)

- Please select your participation grade for the entire class (scale of 0-5) and provide me with a short paragraph justifying your score. I reserve the right to make the decision about the final participation grade, but will take your suggested score into account.