

Assignment 8: Computer Vision Project Preparation

Machine Learning

Fall 2019

Note: Parts of this assignment are due early, so you can build off each others' ideas. The project pitches are due Thursday morning, so we have time to print and organize them.

💡 Learning Objectives

- Explore potential applications of machine learning through reading about the work of others
- Reflect on course experiences and draft personal learning goals
- Ideate computer vision applications for your project

1 Reflect on your course experience

Exercise 1 (20 minutes)

As we move into the project phase of this computer vision module, we want to take a moment to reflect on what worked well and what we might want to change in the next module. Please fill out this survey: [TODO make survey](#)

2 Read about other computer vision applications (80 minutes)

Exercise 2 (80 minutes)

Read the following paper(s):

Suggest they read at least one before the next sections? Include a reflection that they share?

3 Develop Project ideas

Exercise 3 (20 minutes) Due Tuesday night

Prepare for project brainstorming.

- (a) Read the project description (posted on NB).
- (b) Draft your own learning goals for this project. Be sure to bring these to class.
- (c) Explore the suggested data sets (in the project description). You are also welcome to seek your own data set, though this may require additional time.

- (d) Come up with at least 5 potential applications for computer vision, and share them here (there is a separate tab for morning and afternoon sections): [Google Sheet for Ideas](#)

We hope that reviewing what other people post will help you to come up with even more creative ideas, and to get a sense of what others might be excited about. We have found that selecting a few project ideas and thinking about them in more detail can be useful in finding good pairings for partners. We ask you to be sure to complete the next exercise by Thursday at 8 am, so that we can print and cluster your project ideas to make better use of class time.

Exercise 4 (60 minutes) Due by Thursday at 8 am

- (a) Review some of the ideas that others' shared in the [Google Sheet for Ideas](#)
- (b) Select at least two potential applications that you find compelling, and flesh them out. You may want to consider some of the prompts in the Appendix A of the project description.
- (c) Create a pitch slide for both ideas in our shared slide deck. Please make a copy of the template slide, and be sure to keep the template as the first slide so others can find it. [Slide deck and template for morning section.](#)
[Slide deck and template for afternoon section.](#)