

Goals for Week 2/6-2/12

This week I need to

- 1) Re-train our binary and multiclass classification models using the raw data from Brazil with adjusted labels
- 2) Do some research on Python web frameworks (e.g., Flask vs Django)

These goals are all part of completing story 2.1.1 (Theme is Image Classification and Object Detection; story is Image Classification). I will work on (1) and (2) independently (JY will re-train the object detection model).

Since the volunteers have re-labeled the “Blur” images to improve the data quality, we believe the performance of our classification model will be better in Goal (1). The reason we set Goal (2) is that we want to know whether we are able to build a GUI in a limited time and what kind of features different Python web frameworks could provide. We need to meet with Ryan next Monday to discuss more details about this goal.

The week is ambitious, and I expect it to take about 8-10 hours on working independently and 1 hour for internal meeting with Ryan. My plan is to finish (1) by Sunday (if JY could finish cleaning up the data before Saturday) and spend the rest of the week exploring the Python web frameworks.

Report for Week 2/6-2/12

For Goal (1), I was not able to complete it this week because the new data was not ready to be used for training the model as scheduled. We plan to finish cleaning up the re-labeled data from Brazil this week and start retraining our model as soon as possible.

Regarding Goal (2), I did a lot of research on how to build a GUI using Python web frameworks and met with Ryan this Monday to introduce its pros and cons and talk about its feasibility. Ryan will further discuss it with our client then make a decision on whether we need to use AWS services and build a GUI for our project.