Goals for Week 1/22-1/29

This week I need to

1) Re-train our binary and multiclass classification models in two ways, then compare their results:
    a. Only use the new 8000+ annotated data from Ecuador
    b. Combine current data from Brazil with the new data from Ecuador
2) Decide which class/order/species needed extra image data to prioritize the video annotations
3) Explore AWS Deep Learning AMI resources and selections

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 (3) independently (JY will re-train the object detection model), but will work together with JY on (2).

Goal (1) and (2) are important steps for us to decide whether we need to create separate models for different locations or just make a general model for all locations. Goal (3) is crucial for developing and training our deep learning applications faster as more and more data being added to the training set. Since AWS AMI provides different GPU instance options and charges an hourly rate for the compute time used to train our deep learning models, I need to do some research on choosing the right instance type for our application.

The week is ambitious and I expect it to take about 8-10 hours on working independently and 2 hours for meetings (1 hour for client meeting and 1 hour for internal meeting).

My plan is to finish (1) by Sunday (if JY could finish cleaning the new data before Saturday), (2) by next Monday after we meet internally, and spend the rest of the week exploring the AWS AMI services.

Report for Week 1/22-1/29