CS 4232/5232 Introduction to Machine Learning and Data Mining
Fall 2023
Oral Project Proposal Feedback
Prof. Eleazar Leal

Group 3 (Graduate)
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Address the following in the Written Proposal:
- Has work like this on Pokemon been done before? If so, who did it? What are the differences with what you are proposing?
- This type of project can be made even more useful if you attempt to make a phone app to recognize pokemon. It would make your app a legitimate pokedex. Are you considering this idea?
- What are the four algorithms you are planning to use?
- Which algorithms are you implementing by hand from scratch?

Recommendations:
- Collect the Pokemon images as quickly as possible.
- Make sure that you have approximately the same number of images for each pokemon.
- Write in your timetable when you will be done collecting the images.
- The libraries OpenCV, KerasCV, and others can help you resize images and extract image features. This will be useful if you use non-CNN models.

Recommended Readings:
- Look for tutorials on Keras, included with TensorFlow, or PyTorch.
- Look into “Image Feature Extraction”. You’ll need to run these algorithms if you are using Random Forests and SVMs. One package related to this is OpenCV.