**Final Project**

You are required to develop a model that can do object detection. You need to collect around 1000 to 2000 images of cat and dogs. Each image may contain the picture of a cat, or a dog, or both. One of the dataset that you should utilize is at

<https://www.kaggle.com/tarunbisht11/yolo-animal-detection-small?select=yolo-animal-detection-small>

Divide your images between training and testing by 1/5 ratio!

Bonus Points

If you deploy your model on a cell phone, you will get 150% points.

**Final Report**

Your final report should be between 5 to 10 pages, including images.

It should include the following items:

1. Introduction
2. Project Description
3. Purpose of the Project
4. Source of Data/Sample of Images that you took. At least print of 20 of your images, which are very complex!
5. Proposed Method
6. Details of Implementation (at every step!) and problems you are encountered!
7. Copy of Your Programs with Documentation
8. Results - Plot of training/testing accuracy - A short video of your project in action
9. Conclusion