Final Project - Object Recognition

Objective

The objective of this project is to train a couple of different Convolutional Neural Networks to be able to classify an image under one of the trained categories. The result will be a neural network that will accept an image of a specified pixel size and colour map and correctly classify the image as one of the categories.

Dataset

The dataset we will be using is the Caltech 256 dataset that contains 30,607 images altogether from 256 categories (e.g. American flag, Backpack, Computer mouse).

Timeline

The time we have to complete this project is from 10th of May to 8th of June, which is 30 days in total. We would split up the work between ourselves and over the course of the weeks:

Week 1: Research methods that we could use.
Week 2: Pick a couple of methods to explore.
Week 3: Create and train these models.
Week 4: Test, tweak and report on these models.

Team

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