Chad Etheredge / Lee Beadle

CS-470

A.I. Term Project Proposal Change

4/11/2018

Image Recognition AI

We propose to change our term project from the Battleship A.I. to an image recognition system. The system will use machine learning over a large dataset of simple images to attempt to identify one of ten correct categories for the images. To accomplish this task, 50,000 items will be examined to create a base for recognition. Next, 10,000 items will be used to form the test pool for image recognition. We will be observing metrics such as the number of correct identifications, incorrect identifications, and possible margin of error. The project will be written in Python and make use of the TensorFlow open-source library. The dataset pulled from will be the CIFAR-10 standardized image library. This library contains 60,000 images in a standardized format. This library also contains the ten categories for prediction.