Progress Report – Pixel Dawgs: Image Classifier

12/1/2015

Abstract

The main idea behind this study is to create an image classification algorithm that will read the image and produce several tags. These tags will be generated using image-processing tools like SLIC (Simple Linear Iterative Clustering), SOBEL filtering, and DBSCAN (Density Based Spatial Clustering of Applications with Noise). Initially ~2000 images will be used to train the code using machine learning algorithm. Later the classifier will predict tags on the test data. Each tag will then represent a certain layer of the image. Out of all the tags created top 5 tags will be used to define the image with % accuracy.

Manish Borse, Nick Rosetti, Veera Karri, Shreya Gupta