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**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.

Progress Report – Pixel Dawgs: Image Classifier

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