**READ ME**

This document contains details of all the files included in this submission.

* qualitywithmetrics.py  
  This file contains code that calls NimaAnalysis.csv, and combines the results of NIMA with it’s own generated scores of the image’s brightness, blurriness and contrast to give a final quality label of 0 or 1. It also takes photos from the subfolder labeledYelp/ to run it’s tests for quality analysis. The output contains of the accuracy and precision for each category and in total while using a combination of NIMA + metrics for quality assessment.

To run on command prompt - python qualitywithmetrics.py

* NimaAnalysis.csv is a csv file that contains details about our manually labelled test images. Some of the fields it contains include image ID, our manually assigned labels, NIMA scores, etc.
* cnntest.py  
  This file contains the code to implement 3 different cnn architectures out of which 2 were analysed in depth in the presentation. It calls it’s training images from finalTrainPhotos/ and calls it’s training labels from Final\_Train\_Nov29.csv. It calls it’s testing images from labeledYelp/ and it’s testing labels from finaltestinglabelsnew.csv. It outputs the accuracy and precision based on categories and overall.  
  To run on command prompt - python cnntest.py
* Final\_Train\_Nov29.csv is a csv file that contains the final labels for our sampled training photos.