First we separated the training and test images from the image dataset then we built a cnn model using Keras framework.

Because of the low capacity of the RAM we couldn’t use the whole training dataset at once so we made 7 batches of training dataset each comprising of 2000 images .

We normalised each channel (RGB) of the images to make the mean=0 and std dev=1 in each batch. Model is trained on one batch at a time and these weights are further trained on next batch.

Sources used: Keras, OpenCV, Tensorflow(backend), Pickle, Numpy, Pandas ,os