**My Approch:**

So firstly I augmented training data and the whole training data(original+augmented) is saved in a folder ‘preview’. Then I used CNN to train a model where I used the approach of transfer learning for which I used a pretrained VGG16 model, in which I freeze vgg16 and flatten layer after one use and furter i used dropout and some dense layers to get required shape that's 52(as we have 52 classes here). For training I divided the whole training dataset for training and validation dataset, where validation has 20% of total training data. In training model I used adam optimizer and 10 epochs to train, in which I got pretty good accuracy of train as well as validation data set. So finally I predicted the classes for the test dataset and probability for each prediction and saved it in the given format in submission.csv file.

**More Approaches couldn’t have tried due to Time Constraint:**

There are many things I could have tried to make the model best that because of time constrained i was unable to.I could have tried Feature Detection and matching method using

ORB(Oriented FAST and rotated BRIEF) tool for feature detection to make image classifier.

Also I could have tried some other advanced libraries like pytoch etc for making classifier.