

Assignment 1 Write-up (Vismay Srivastava)

This assignment is based on basic image transformations like rotate, crop, change color, scaling. This is required to understand the basic operation required for OpenCV and PIL. To rotate, I was forced to use the in-built function from PIL, `img.rotate()`, as the trigonometric rotation was too complex to implement. Scale was a straightforward task to follow the instruction provided in the `student_code.py`. Color jitter required to add three alpha values (randomly picked) to each of the color channels. For crop, we compute the new height and width from the target area and aspect ratio and check if the new values are feasible for cropping. Once confirmed, we go ahead and crop the image else do the square crop.

We were also given a data augmentation and pipeline to create multiple results on the given set of images. This writes the final output in the results folder and running the `submissions.py` we get the final zip file.

