

Configure ImageDataGenerator Class

ImageDataGenerator class is instantiated and the configuration for the types of data augmentation

There are five main types of data augmentation techniques for image data; specifically:

Image shifts via the width_shift_range and height_shift_range arguments. The image flips via the horizontal_flip and vertical_flip arguments.

Image rotations via the rotation_range argument. Image brightness via the brightness_range argument. Image zoom via the zoom_range argument.

An instance of the ImageDataGenerator class can be constructed for train and test.

Image Data Augmentation

```
#setting parameter for Image Data augmentation to the training data
train_datagen = ImageDataGenerator(rescale=1./255, shear_range=0.2, zoom_range=0.2, horizontal_flip=True)
#Image Data augmentation to the testing data
test_datagen = ImageDataGenerator(rescale=1./255)
```