

CONFIGURE IMAGEDATAGENERATOR CLASS

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ImageData Generator 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 Image Data Generator class can be constructed for train and test.

Image Data Agumentation

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