

Image Preprocessing

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Project Name	AI-powered Nutrition Analyzer for Fitness Enthusiasts

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.

```
✓ [4] # Data augmentation on training variable
0s
train_datagen = ImageDataGenerator(rescale=1./255,
                                   zoom_range=0.2,
                                   horizontal_flip=True)
```

```
✓ # Data augmentation on testing variable
0s
test_datagen = ImageDataGenerator(rescale=1./255)
```