

CONFIGURE IMAGEDATAGENERATOR CLASS

Date	08 November 2022
Team ID	PNT2022TMID09266
Project Name	AI-Powered Nutrition Analyzer for Fitness Enthusiasts

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 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)
```