

IMAGE PREPROCESSING

Configure ImageDataGenerator Class

DATE	01 NOVEMBER
TEAM ID	PNT2022TMID21338
PROJECT CATEGORY	ARTIFICIAL INTELLIGENCE
PROJECT NAME	AI-POWERED NUTRITION ANALYZER FOR FITNESS ENTHUSIASTS

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.

CONFIGURE IMAGEDATAGENERATOR CLASS

```
[3] train_datagen=ImageDataGenerator(rescale=1./255,shear_range=0.2,zoom_range=0.2,horizontal_flip=True)

test_datagen=ImageDataGenerator(rescale=1./255)
```