

<b>Date</b>	19 November 2022
<b>Team ID</b>	PNT2022TMID19703
<b>Project Name</b>	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.

#### 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)
```