

**TEAM ID:** PNT2022TMID07108

**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.

### 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)
```