## **AI-powered Nutrition Analyzer for Fitness Enthusiasts**

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## **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 withshiftrange and heightshiftrange arguments. The image flips via the horizontalflip and verticalflip arguments. Image rotations via the rotationrange argument Image brightness via the brightnessrange argument.

Image zoom via the zoomrange 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)