

Apply Image Data Generator Functionality to Trainset and Test set

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Project Name	Project - AI-Powered Nutrition Analyzer for Fitness enthusiasts

Loading our data and performing data augmentation

```
#performing data augmentation to train data
x_train = train_datagen.flow_from_directory(
    r'/content/drive/MyDrive/Dataset/TRAIN_SET',
    target_size=(64, 64),batch_size=5,color_mode='rgb',class_mode='sparse')
#performing data augmentation to test data
x_test = test_datagen.flow_from_directory(
    r'/content/drive/MyDrive/Dataset/TEST_SET',
    target_size=(64, 64),batch_size=5,color_mode='rgb',class_mode='sparse')
```

Found 4118 images belonging to 5 classes.
Found 929 images belonging to 5 classes.

```
print(x_train.class_indices)#checking the number of classes
```

```
{'APPLES': 0, 'BANANA': 1, 'ORANGE': 2, 'PINEAPPLE': 3, 'WATERMELON': 4}
```

```
print(x_test.class_indices)#checking the number of classes
```

```
{'APPLES': 0, 'BANANA': 1, 'ORANGE': 2, 'PINEAPPLE': 3, 'WATERMELON': 4}
```

```
from collections import Counter as c
c(x_train.labels)
```

```
Counter({0: 995, 1: 1354, 2: 1019, 3: 275, 4: 475})
```