Sprint 1 - Task 3

Date	15 October 2022
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Project Name	AI Based Food Analyzer for fitness Enthusiasts

Applying the Augmentation

Preprocessing the Testing images and Training images Datsets

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

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

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

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

```
from keras.preprocessing.image import ImageDataGenerator

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

test_datagen=ImageDataGenerator(rescale=1./255)

x_train=train_datagen.flow_from_directory(r'/content/drive/MyDrive/TRAIN_SET',
                                          target_size=(64,64),batch_size=5,color_mode='rgb',class_mode='sparse')


x_test=test_datagen.flow_from_directory(r'/content/drive/MyDrive/TEST_SET',
                                          target_size=(64,64),batch_size=5,color_mode='rgb',class_mode='sparse')
```

```
Found 2626 images belonging to 5 classes.
Found 2110 images belonging to 5 classes.
```