

# AI-Powered Nutrition Analyzer for Fitness Enthusiasts

## Image Preprocessing

Team ID	PNT2022TMID26332
Project Name	AI-Powered Nutrition Analyzer for Fitness Enthusiasts

## Apply Image Data Generator Functionality To Trainset And Test set

```
[10] x = train_datagen.flow_from_directory(r"/content/drive/MyDrive/ibm/TRAIN_SET",target_size=(256, 256), class_mode='categorical', batch_size=32)

Found 2626 images belonging to 5 classes.

[11] y = test_datagen.flow_from_directory(r"/content/drive/MyDrive/ibm/TEST_SET",target_size=(256, 256), class_mode='categorical', batch_size=32)

Found 1055 images belonging to 5 classes.

[12] print(x.class_indices)

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

[13] print(y.class_indices)

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

[14] from collections import Counter as c
c(x.labels)

Counter([0: 606, 1: 445, 2: 479, 3: 621, 4: 475])

[15] from collections import Counter as c
c(y.labels)

Counter([0: 157, 1: 287, 2: 160, 3: 294, 4: 157])
```