

Image PreProcessing

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Team ID	PNT2022TMID13870
Project Name	Project - AI-Powered Nutrition Analyzer for Fitness Enthusiasts

Image PreProcessing

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from keras.preprocessing.image import ImageDataGenerator

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[2]

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

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[7]

#Applying Image DataGenerator Functionality To Trainset And Testset
x_train = train_datagen.flow_from_directory(
 r'/content/drive/MyDrive/DataSet-IBM/TRAIN_SET',
 target_size=(64, 64), batch_size=5, color_mode='rgb', class_mode='sparse')
#Applying Image DataGenerator Functionality To Testset
x_test = test_datagen.flow_from_directory(
 r'/content/drive/MyDrive/DataSet-IBM/TEST_SET',
 target_size=(64, 64), batch_size=5, color_mode='rgb', class_mode='sparse')

Found 4128 images belonging to 5 classes.
Found 929 images belonging to 5 classes.

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[8]

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

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

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[9]

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

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

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[10]

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

Counter({0: 995, 1: 1364, 2: 1019, 3: 275, 4: 475})

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