# Sprint -1
# Image PreProcessing

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| Date | 5 November 2022 |
| Team ID | PNT2022TMID13870 |
| Project Name | Project - AI-Powered Nutrition Analyzer for Fitness Enthusiasts |

## Image PreProcessing

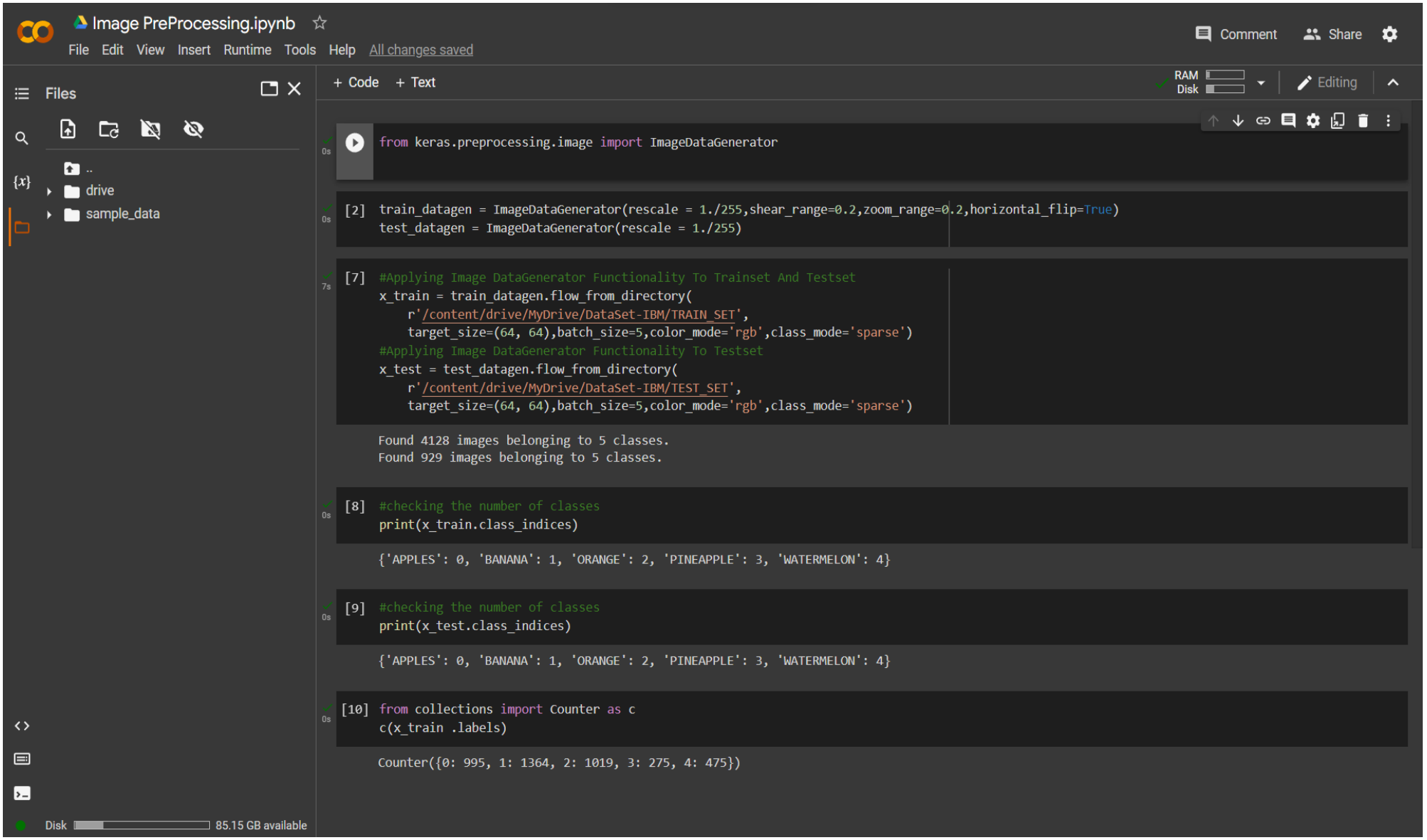
Image PreProcessing.ipynb
File Edit View Insert Runtime Tools Help All changes saved
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+ Text
RAM
Disk
Editing
..
drive
sample_data
from keras.preprocessing.image import ImageDataGenerator
[2] train_datagen = ImageDataGenerator(rescale = 1./255,shear_range=0.2,zoom_range=0.2,horizontal_flip=True)
test_datagen = ImageDataGenerator(rescale = 1./255)
[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.
[8] #checking the number of classes
print(x_train.class_indices)
{'APPLES': 0, 'BANANA': 1, 'ORANGE': 2, 'PINEAPPLE': 3, 'WATERMELON': 4}
[9] #checking the number of classes
print(x_test.class_indices)
{'APPLES': 0, 'BANANA': 1, 'ORANGE': 2, 'PINEAPPLE': 3, 'WATERMELON': 4}
[10] from collections import Counter as c
c(x_train .labels)
Counter({0: 995, 1: 1364, 2: 1019, 3: 275, 4: 475})
Disk 85.15 GB available