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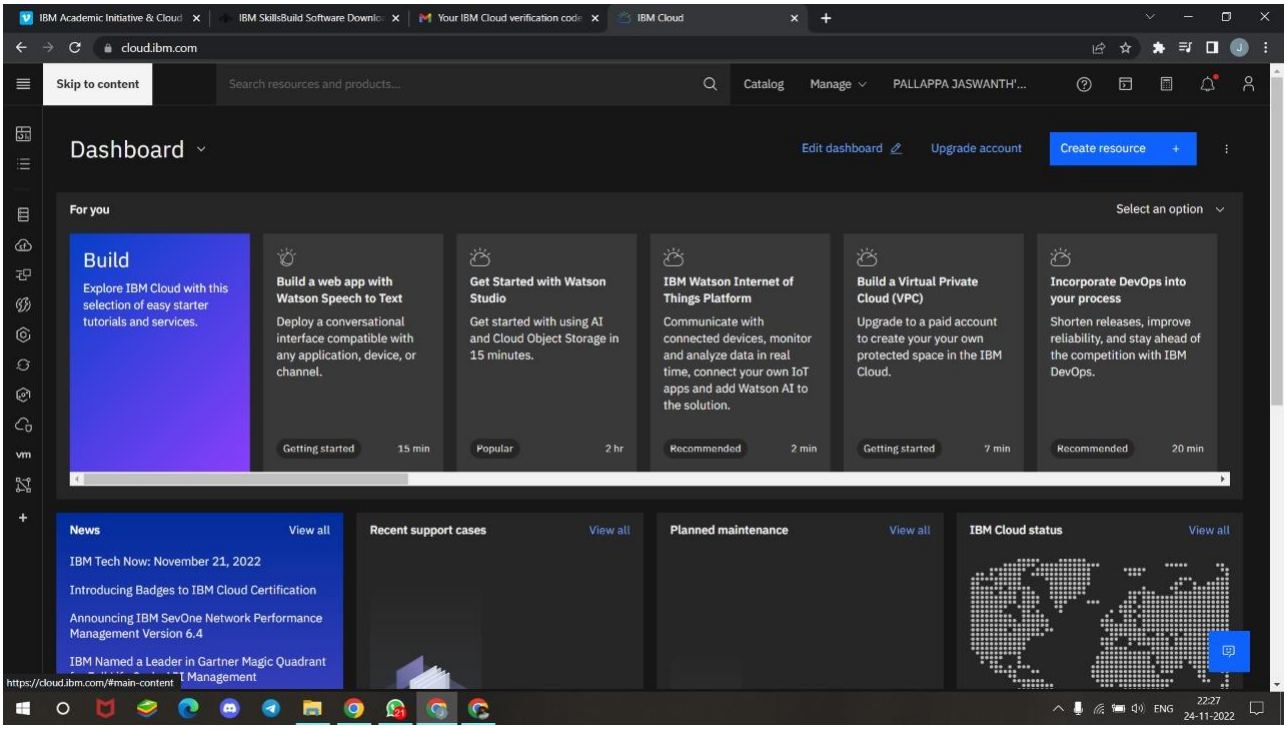
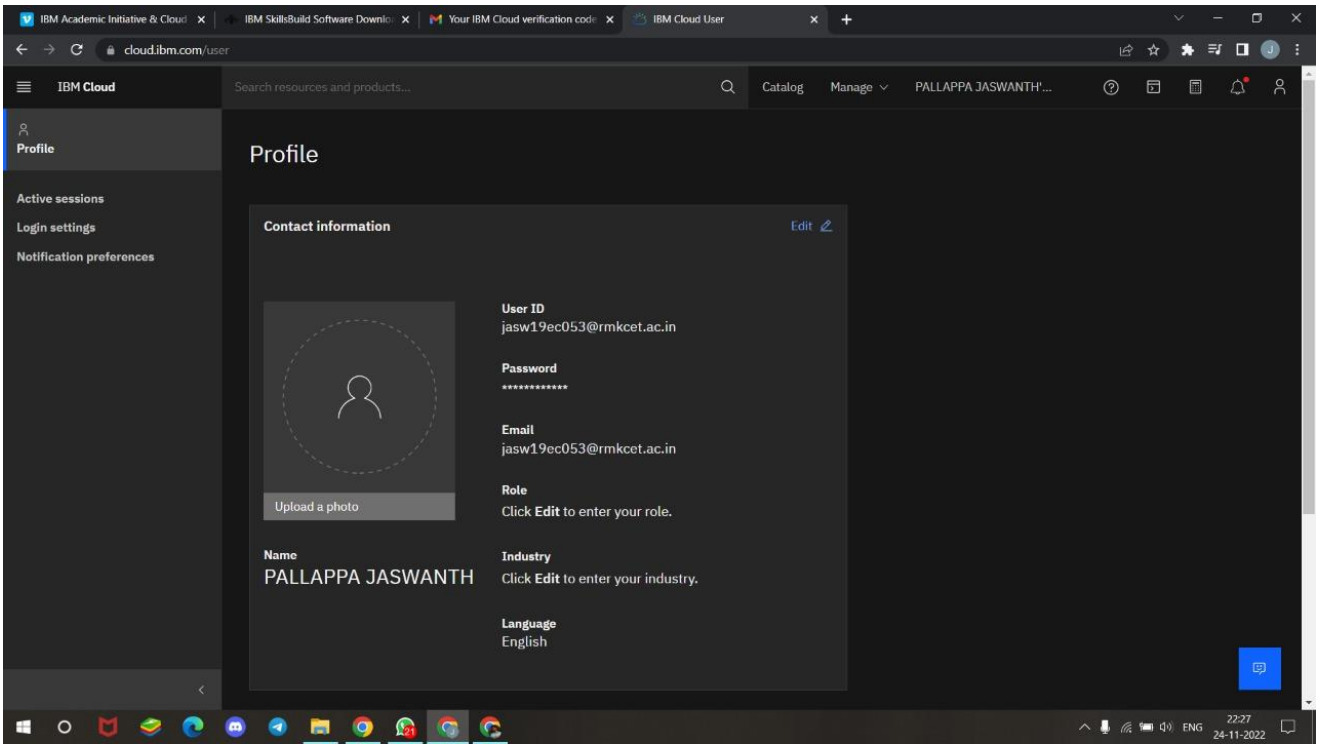
TEAM ID	PNT2022TMID14604
PROJECT NAME	AI-powered Nutrition Analyzer for Fitness Enthusiasts

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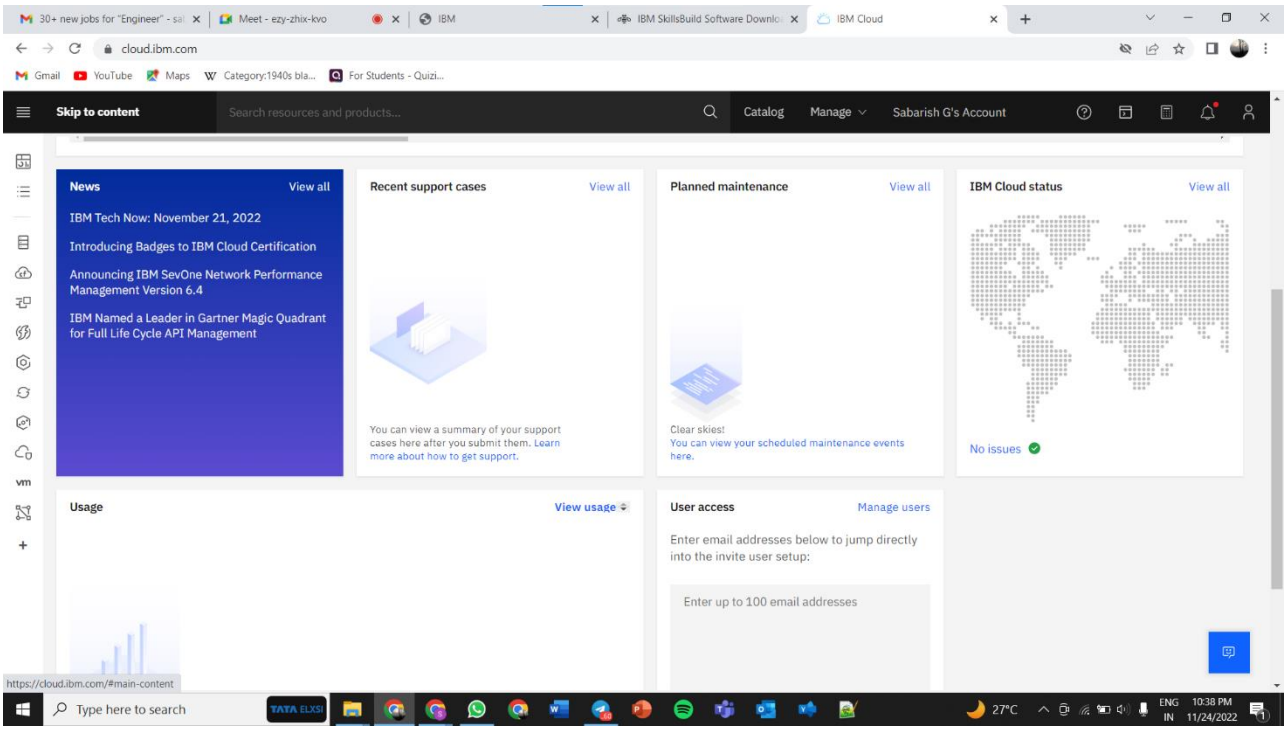
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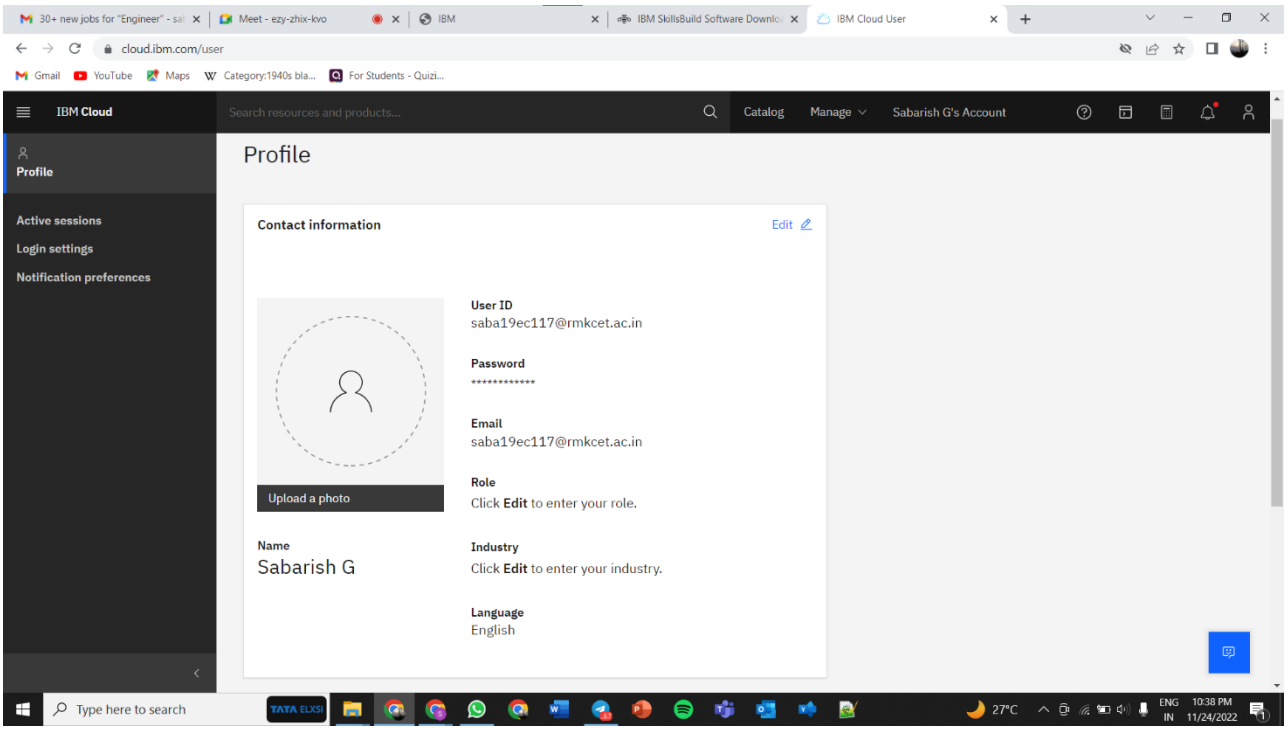
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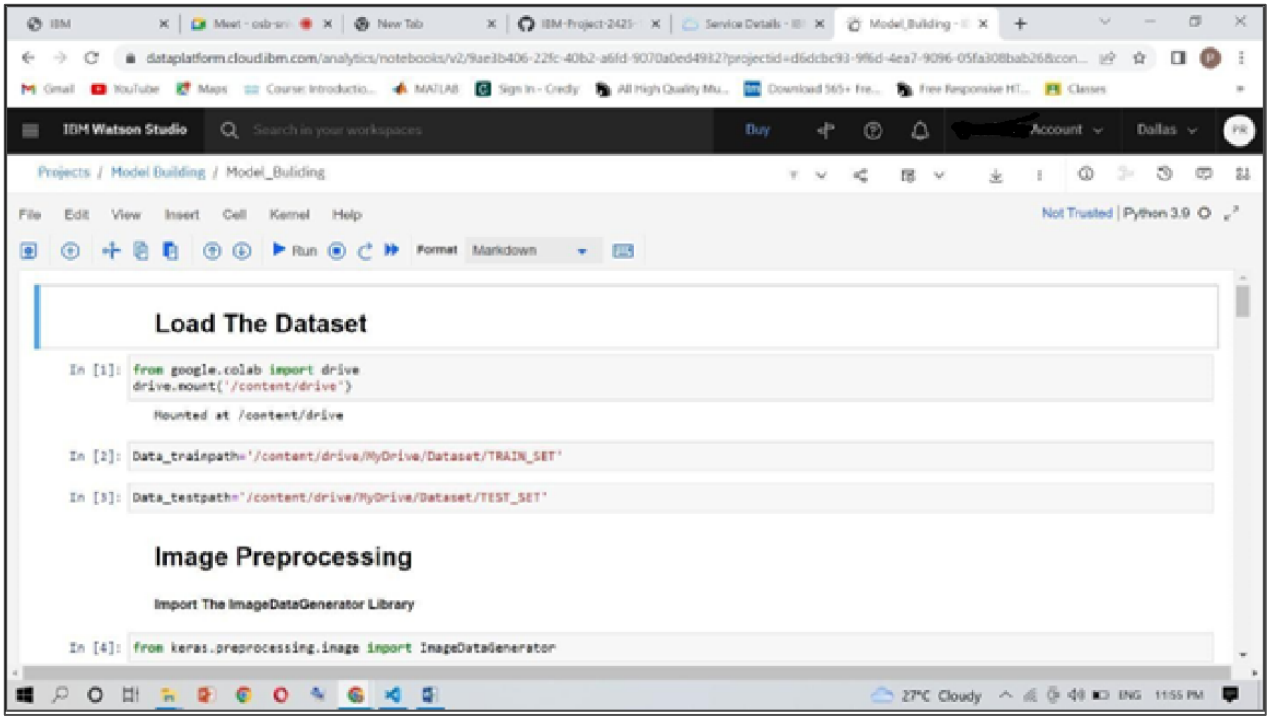
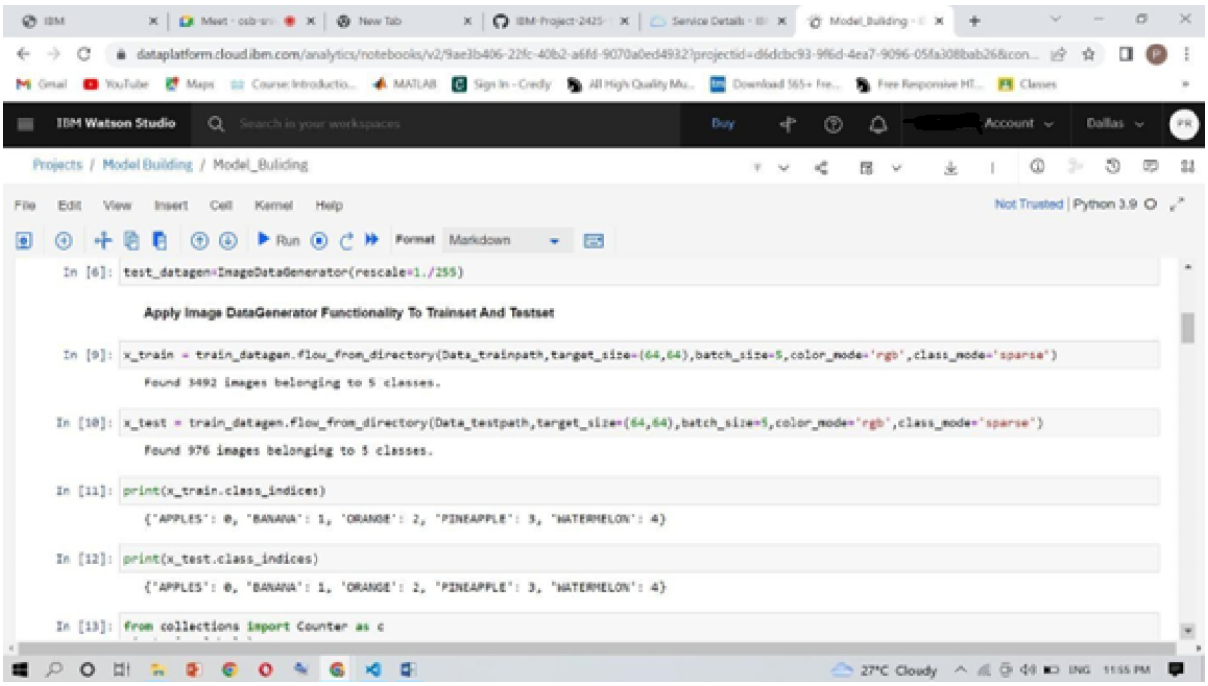
TRAIN MODEL ON IBM





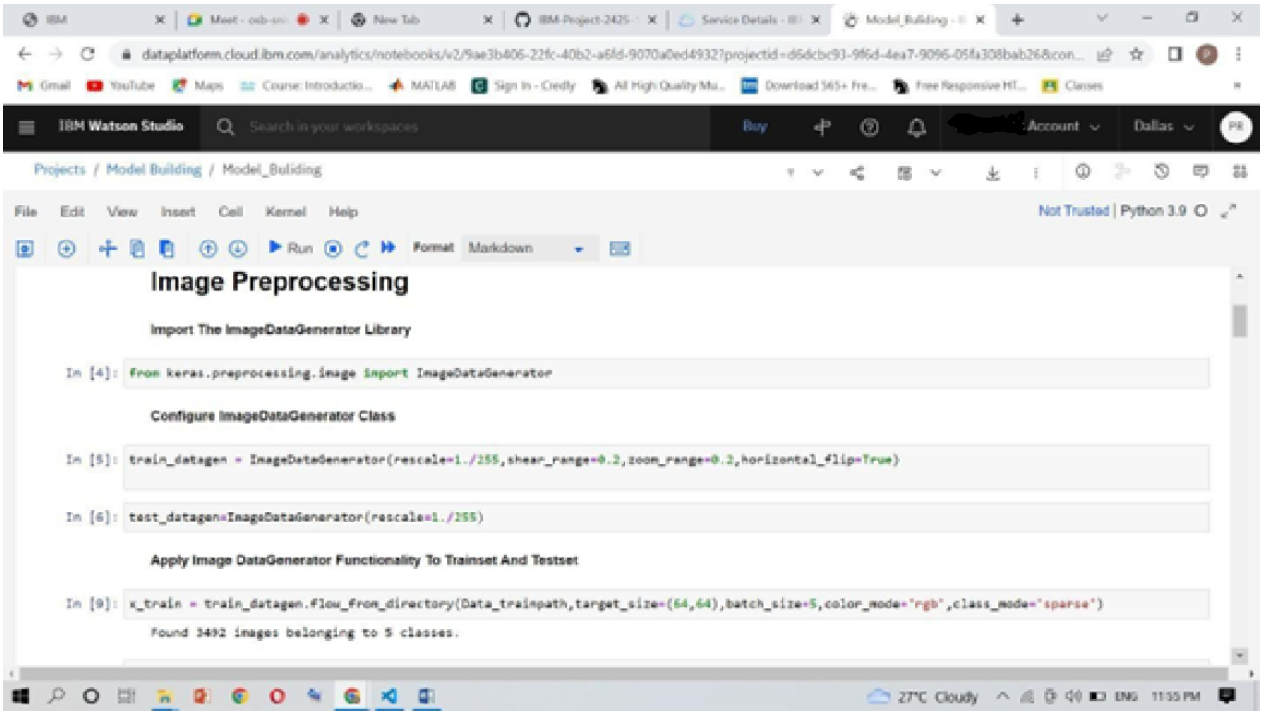

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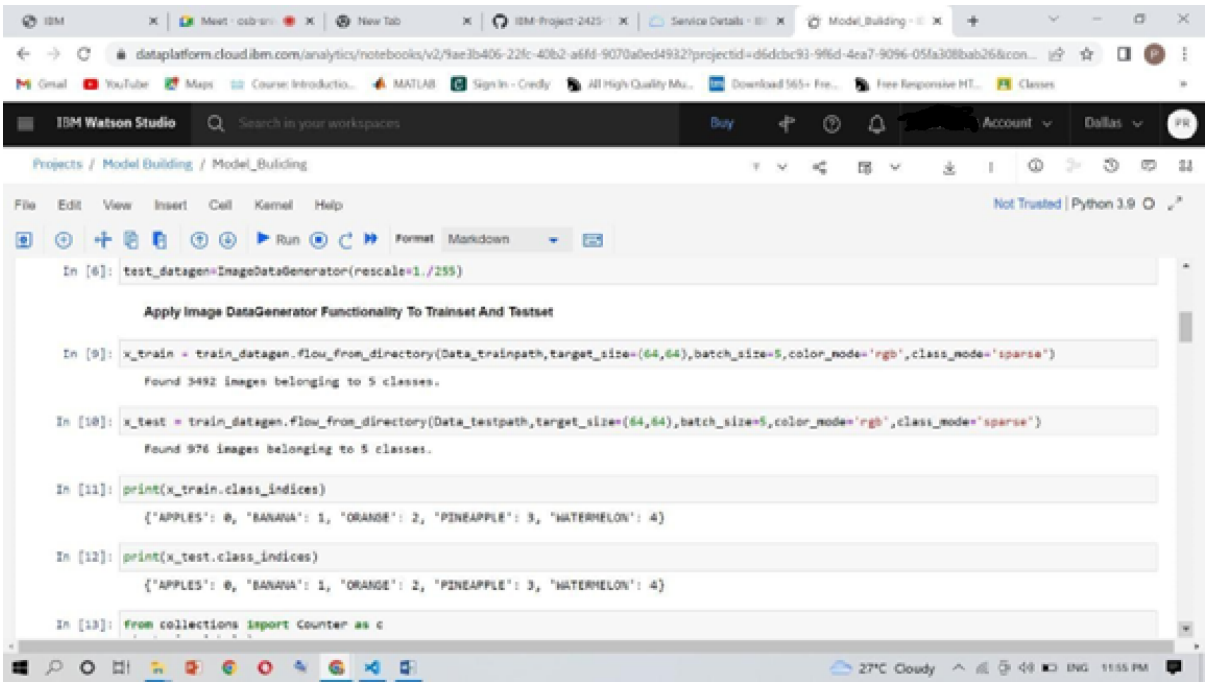
Image Preprocessing
Import The ImageDataGenerator Library
In [4]: from keras.preprocessing.image import ImageDataGenerator
Configure ImageDataGenerator Class
In [5]: train_datagen = ImageDataGenerator(rescale=1./255,shear_range=0.2,zoom_range=0.2,horizontal_flip=True)
In [6]: test_datagen=ImageDataGenerator(rescale=1./255)
Apply Image DataGenerator Functionality To Trainset And Testset
In [9]: x_train = train_datagen.flow_from_directory(Data_trainpath,target_size=(64,64),batch_size=5,color_mode='rgb',class_mode='sparse')
Found 3492 images belonging to 5 classes.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In [6]: test_datagen=ImageDataGenerator(rescale=1./255)
Apply Image DataGenerator Functionality To Trainset And Testset
In [9]: x_train = train_datagen.flow_from_directory(Data_trainpath,target_size=(64,64),batch_size=5,color_mode='rgb',class_mode='sparse')
Found 3492 images belonging to 5 classes.
In [10]: x_test = train_datagen.flow_from_directory(Data_testpath,target_size=(64,64),batch_size=5,color_mode='rgb',class_mode='sparse')
Found 976 images belonging to 5 classes.
In [11]: print(x_train.class_indices)
{'APPLES': 0, 'BANANA': 1, 'ORANGE': 2, 'PINEAPPLE': 3, 'WATERMELON': 4}
In [12]: print(x_test.class_indices)
{'APPLES': 0, 'BANANA': 1, 'ORANGE': 2, 'PINEAPPLE': 3, 'WATERMELON': 4}
In [13]: from collections import Counter as c