

IMAGE PREPROCESSING

Applying Imagedatagenerator Functionality To Trainset And Testset

Team Id	PNT2022TMID45404
Project Name	Emerging Method For Early Detection Of Forest Fires

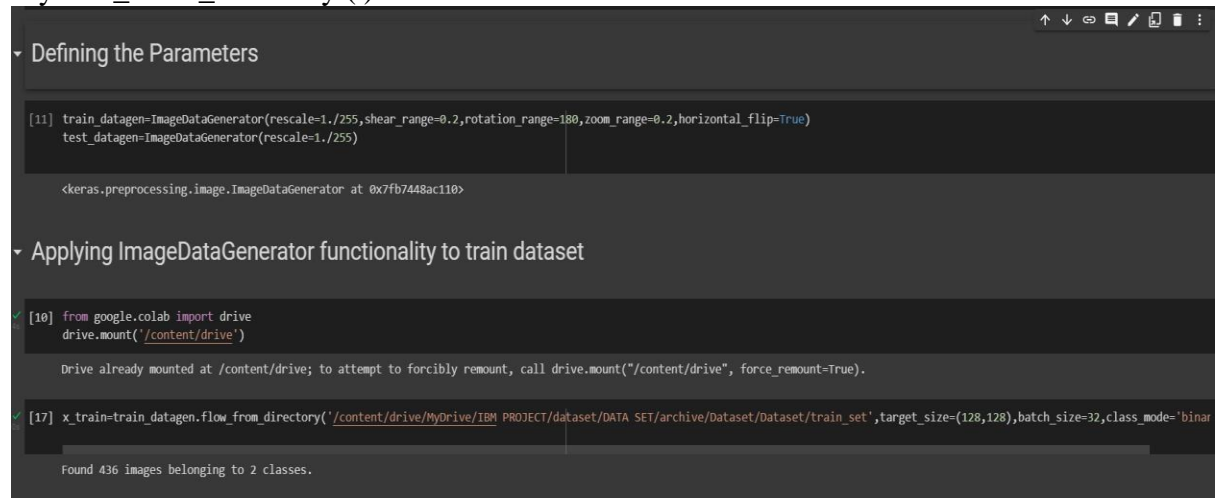
The Imagedatagenerator Class Has Three Methods,

- 1.Flow (),
- 2.Flow_From_Directory ()
- 3.Flow_From_Dataframe () To Read The Images From A Big Numpy Array And Folders Containing Images.

Flow_From_Directory () Expects At Least One Directory Under The Given Directory Path.

Applying Imagedatagenerator To Train Dataset:

Plyflow_From_Directory ()Methodfor Train Folder.



```

# Defining the Parameters

[11] train_datagen=ImageDataGenerator(rescale=1./255, shear_range=0.2, rotation_range=180, zoom_range=0.2, horizontal_flip=True)
     test_datagen=ImageDataGenerator(rescale=1./255)

<keras.preprocessing.image.ImageDataGenerator at 0x7fb7448ac110>

# Applying ImageDataGenerator functionality to train dataset

[10] from google.colab import drive
     drive.mount('/content/drive')

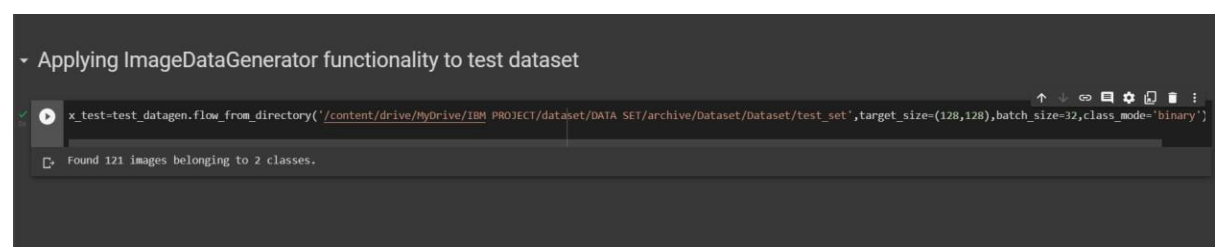
Drive already mounted at /content/drive; to attempt to forcibly remount, call drive.mount("/content/drive", force_remount=True).

[17] x_train=train_datagen.flow_from_directory('/content/drive/MyDrive/IBM PROJECT/dataset/DATA SET/archive/Dataset/Dataset/train_set',target_size=(128,128),batch_size=32,class_mode='binary')

Found 436 images belonging to 2 classes.
```

Applying Imagedatagenerator To Test Dataset:

Applying The Flow_From_Directory () Methodfortest Folder.



```

# Applying ImageDataGenerator functionality to test dataset

x_test=test_datagen.flow_from_directory('/content/drive/MyDrive/IBM PROJECT/dataset/DATA SET/archive/Dataset/Dataset/test_set',target_size=(128,128),batch_size=32,class_mode='binary')

Found 121 images belonging to 2 classes.
```