IMAGE PRE-PROCESSING

TEAM ID	PNT2022TMID20850
Project Name	Emerging Methods for Early Detection of Forest Fires

Applying ImageDataGenerator Functionality To Train Set And Test Set

import keras

from keras.preprocessing.image import ImageDataGenerator

#Define the parameters/ arguments for ImageDataGenerator class

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)

#Applying ImageDataGenerator functionality to trainset

x_train=train_datagen.flow_from_directory('/content/Dataset/ Dataset/train_set'target_size=(128,128),batch_size=32,class_mode='binary')

Found 436 images belonging to 2 classes.

#Applying ImageDataGenerator functionality to testset

x_test=test_datagen.flow_from_directory('/content/Dataset/ Dataset/test_set'target_size=(128,128),batch_size=32,class_mode='binary')

Found 121 images belonging to 2 classes.