EMERGING METHODS FOR EARLY DETECTION OF FOREST FIRES

IMAGE PREPROCESSING

Applying ImageData Generator Functionality to Trainset And Testset

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Team ID	PNT2022TMID26945
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##Importing The ImageDataGenerator Library

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(r'C:\archive\Dataset\Dataset\train_set',target_size=(128,128),batch_size=32,class_mode='binary')

Applying ImageDataGenerator Functionality to testset

```
x_test=test_datagen.flow_from_directory(r'C:\archive\Dataset\Dataset\test_set',target_size=(128,128),batch_size=32,class_mode='binary')
```