

# **EMERGING METHODS FOR EARLY DETECTION OF FOREST FIRES**

## **IMAGE PREPROCESSING**

### **Importing the Image Data Generator Library**

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<b>Project Name</b>	Emerging Methods for Early Detection of ForestFires

### **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'/content/drive/MyDrive/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(r'/content/drive/MyDrive/Dataset/test_set',  
target_size=(128,128),batch_size=32, class_mode='binary')
```

Found 121 images belonging to 2 classes.

