

**Project Development Phase**  
**Sprint – 2**  
**Image Preprocessing**

Date	18 November 2022
Team ID	PNT2022TMID47227
Project Name	Emerging Methods for Early Detection of Forest Fires
Maximum Marks	4 Marks

**NOTEBOOK**

**Importing The ImageDataGenerator Library:**

```
# import keras Library

import keras# import ImageDataGenerator class from keras

from keras.preprocessing.image import ImageDataGenerator
```

**Define The Parameters /Arguments for ImageDataGenerator Class :**

```
# Define the parameters/arguments for ImageDataGenerator class

train_datagen = ImageDataGenerator(rescale=1./255, shear_range=0.2, zoom_range=0.2, horizontal_flip=True)

test_datagen = ImageDataGenerator(rescale=1./255)
```

## **Applying ImageDataGenerator Functionality To Trainset and Testset :**

```
x_train = train_datagen.flow_from_directory(r"/content/drive/MyDrive/Dataset/test_set",target_size=(64,64),batch_size=32, color_mode="rgb",class_mode="sparse")
```

Found 121 images belonging to 2 classes.

```
x_test = test_datagen.flow_from_directory(r"/content/drive/MyDrive/Dataset/train_set",target_size=(64,64),batch_size=32, color_mode="rgb",class_mode="sparse")
```

Found 436 images belonging to 2 classes.