Project Development Phase
Sprint – 2
Image Preprocessing

Date	10 November 2022
Team ID	PNT2022TMID07671
Project Name	Emerging Methods for Early Detection of Forest Fires
Maximum Marks	4 Marks

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Importing The ImageDataGenerator Library:

```python
# import keras Library

import keras# import ImageDataGenerator class from keras

from keras.preprocessing.image import ImageDataGenerator
```

Define The Parameters /Arguments for ImageDataGenerator Class :

```python
# 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/MyDriv
e/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="r
gb",class_mode="sparse")
```

```
Found 436 images belonging to 2 classes.
```