

## PROJECT DEVELOPMENT PHASE

### SPRINT-II

Date	5 November 2022
TeamID	PNT2022TMID51601
Project Name	Emerging methods for early detection of forest fires.
MaximumMarks	4Marks

## Image Preprocessing

### **#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 :**

```
train_datagen = ImageDataGenerator(rescale=1./255,shear_range=0.2,zoom_range=0.2,
horizontal_flip=True,vertical_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/Data
Collection/training",target_size=(64,64),batch_size=32,
color_mode="rgb",class_mode="sparse")
```

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