**EMERGING METHODS FOR EARLY**

**DETECTION OF FOREST FIRES**

**IMAGE PREPROCESSING**

**Importing the Image**

**DataGenerator Library**

|  |  |
| --- | --- |
| **Date** | 02 November 2022 |
| **Team ID** | PNT2022TMID14015 |
| **Project Name** | Emerging Methods for Early Detection of Forest Fires |

# 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.