EMERGING METHODS FOR EARLY DETECTION OF FOREST FIRE

IMAGE PREPROCESSING

Date	31 October 2022
Team ID	PNT2022TMID37312
Project Name	Emerging Methods for Early Detection
	Of Forest Fire.

```
!pip install libgl1-mesa-dev
import tensorflow as tf
import numpy as np
from tensorflow import keras
import os
from tensorflow.keras.preprocessing.image import ImageDataGenerator
from tensorflow.keras.preprocessing import image
ERROR: Could not find a version that satisfies the requirement libgl1-mesa-dev (from versions: none)
ERROR: No matching distribution found for libgl1-mesa-dev
#Define the parameters/arguments for ImageDataGenerator class
train=ImageDataGenerator(rescale=1./255,shear range=0.2,rotation range=180,zoom range=0.2,horizontal flip=True)
train = ImageDataGenerator(rescale=1/255)
test = ImageDataGenerator(rescale=1/255)
# Applying ImageDataGenerator functionality to trainset
x_train = train.flow_from_directory("/home/wsuser/work/Dataset/Dataset/train_set",
                                          target_size=(64,64),
                                          batch_size = 32,
                                          class_mode = 'binary' )
Found 436 images belonging to 2 classes.
#Applying ImageDataGenerator functionality to testset
x_test = test.flow_from_directory("/home/wsuser/work/Dataset/Dataset/test_set",
                                          target size=(64,64),
                                          batch size = 32,
                                          class mode = 'binary' )
```

Found 121 images belonging to 2 classes.