EMERGING METHODS FOR EARLY DETECTION OF FOREST FIRES

MODEL BUILDING

IMPORTING THE MODEL BUILDING LIBRARIES

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Team ID	PNT2022TMID18694
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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,rot ati on_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/MyDriv e/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.

Import model building libraries

#To define Linear initialisation import Sequential
from keras.models import Sequential #To add
layers import Dense from keras.layers import
Dense
#To create Convolution kernel import Convolution2D from
keras.layers import Convolution2D
#import Maxpooling layer
from keras.layers import MaxPooling2D
#import flatten layer from
keras.layers import Flatten
import warnings
warnings.filterwarnings('ignore')