EMERGING METHODS FOR EARLY DETECTION

OF FOREST FIRES

MODEL BUILDING

IMPORTING THE MODEL BUILDING LIBRARIES

Date	06 November 2022
Team ID	PNT2022TMID30907
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,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/MyDrive/C olab Notebooks/Dataset/trainset',target_size=(128,128),batch_size=32, class_mode='binary')

Found 117 images belonging to 2 classes.

Applying ImageDataGenerator functionality to testset

x_train=train_datagen.flow_from_directory(r'/content/drive/MyDrive/C olab Notebooks/Dataset/testset',target_size=(128,128),batch_size=32, class_mode='binary')

Found 117 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')