EMERGING METHODS FOR EARLY DETECTION OF FOREST FIRES

MODEL BUILDING Importing the Model Building Libraries

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Team ID	PNT2022TMID26945
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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,rotation_range=180,zoom_range=0.2,horizontal_flip=True)

test_datagen=ImageDataGenerator(rescale=1./255)

###Applying ImageDataGenerator Functionality to trainset

 $x_train=train_datagen.flow_from_directory(r'C:\archive\Dataset\Dataset\train_set', target_size=(128,128), batch_size=32, class_mode='binary')$

###Applying ImageDataGenerator Functionality to testset

x_test=test_datagen.flow_from_directory(r'C:\archive\Dataset\Dataset\test_set',tar get_size=(128,128),batch_size=32,class_mode='binary')

##Import model building libraries

#To Define linear initialization import Sequential

from keras.models import Sequential

#To add layers import Dense

from keras.layers import Dense

#To create Convolution kernel import Convolution 2D

from keras.layers import Convolution2D

#import maxpooling layers

from keras.layers import MaxPooling2D

#import flatten Layer

from keras.layers import Flatten

import warnings

warnings.filterwarnings('ignore')