EMERGING METHODS FOR EARLY DETECTION OF FOREST FIRES

MODEL BUILDING

INITIALIZING THE MODEL

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-	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.

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')

Initializing the model

model=Sequential()