Model Building

Adding CNN Layer

Date: 09 November 2022

Team ID: PNT2022TMID13265

Project Name : Emerging Methods for early Detection Of forest fire

*'''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 Covolution2D* from keras.layers import Convolution2D

*#import Maxpooling Layer* from keras.layers import Dense from keras.layers import Convolution2D

*#import Flatten Layer* from keras.layers import Flatten *#import maxpooling layer* from keras.layers import MaxPooling2D

import warnings

warnings.filterwarnings('ignore')

*#initializing model* model=Sequential()

Adding CNN Layer Task 1:

*#add cnn layer*

model.add(Conv2D(filters=32,kernel\_size=2,padding="same",activation ="relu"))

model.add(MaxPooling2D(pool\_size=2))

model.add(Conv2D(filters=64,kernel\_size=2,padding="same",activation="r elu"))

model.add(MaxPooling2D(pool\_size=2))

Task 2:

*#flattening layer* model.add(Flatten())

Task 3:

*#Adding PoolingLayer* model.add(MaxPooling2D(pool\_size=(2,2)))