EARLYDETECTIONOFFORESTFIREUSINGDEEPLEARNING

MODELBUILDING

IMPORTINGTHEMODELBUILDING LIBRARIES

TeamID	PNT2022TMID30386
ProjectName	Project-Early detection of forest fire using
	deeplearning

IMPORTINGTHEMODELBUILDINGLIBRARIES:

Import the libraries that are required to initialize the neural network layer, create and adddifferentlayerstotheneuralnetworkmodel. The belowlibraries are imported and executed.

11/7/22, 12:35 AM

Untitled8.ipynb - Colaboratory

Importing Keras libraries

import keras

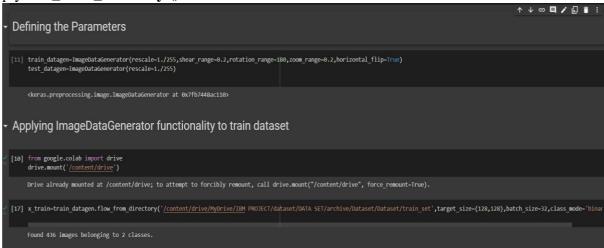
Importing ImageDataGenerator from Keras

from keras.preprocessing.image import ImageDataGenerator

~	Importing Keras libraries
>	[1] import keras
•	Importing ImageDataGenerator from Keras
✓ Os	[13] from matplotlib import pyplot as plt from keras.preprocessing.image import ImageDataGenerator
•	Defining the Parameters
	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)
	Ckeras.preprocessing.image.ImageDataGenerator at 0x7fb7448ac110>

APPLYINGImageDataGeneratortotraindataset:

plyflow_from_directory ()methodforTrainfolder.



APPLYINGImageDataGeneratortotestdataset:

Applyingtheflow_from_directory()methodfortestfolder.



IMPORTINGMODELBUILDINGLIBRARIES:

11/8/22, 1:16 AM Main code - Colaboratory

Importing Model Building Libraries

```
#to define the linear Initialisation import sequential
from keras.models import Sequential
#to add layers import Dense
from keras.layers import Dense
#to create Convolutional 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')
```