EMERGING METHODS FOR EARLY DETECTIONOFFORESTFIRE

MODEL

BUILDINGINITIALIZINGT

HEMODEL

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ProjectName	Project-Emerging methods for Early
	detection of forest fire

INITIALILIZINGTHEMODEL:

kerashas2waystodefineaneuralnetwork:

- Sequential
- FunctionAPI

The Sequential class is used to define linear initializations of network layers which then, collectively, constitute a model. In our example below, we will use the Sequential constructortocreateamodel, which will then have layers added to it using the add () method.

Now, willinitialize our model.

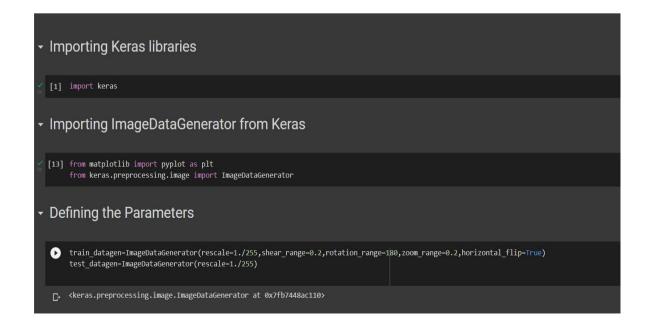
11/7/22, 12:35 AM Untitled8.ipynb - Colaboratory

Importing Keras libraries

import keras

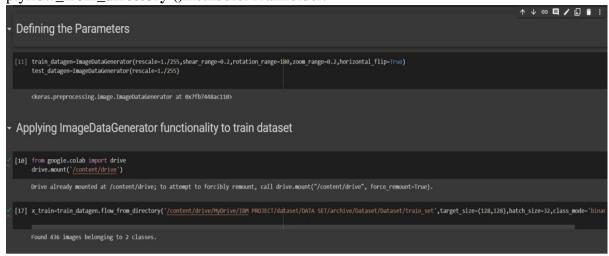
Importing ImageDataGenerator from Keras

from keras.preprocessing.image import ImageDataGenerator



APPLYINGImageDataGeneratortotraindataset:

plyflow_from_directory ()methodforTrainfolder.



APPLYINGImageDataGeneratortotestdataset:

Applying the **flow_from_directory**() method for test folder.



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')
```

INITIALIZINGTHEMODEL: Initializing the model model=Sequential()