**from** google.colab **import** drive

drive**.**mount('/content/drive/')

Mounted at /content/drive/

In [ ]:

!unzip "/content/drive/MyDrive/dataset1.zip"

Archive: /content/drive/MyDrive/dataset1.zip

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In [ ]:

!pip install tensorflow

!pip install opencv**-**python

!pip install opencv**-**contrib**-**python

**import** tensorflow **as** tf

**import** numpy **as** np

**from** tensorflow **import** keras

**import** os

**import** cv2

**from** tensorflow.keras.preprocessing.image **import** ImageDataGenerator

**from** tensorflow.keras.preprocessing **import** image

Looking in indexes: https://pypi.org/simple, https://us-python.pkg.dev/colab-wheels/public/simple/

Requirement already satisfied: tensorflow in /usr/local/lib/python3.7/dist-packages (2.9.2)

Requirement already satisfied: opt-einsum>=2.3.2 in /usr/local/lib/python3.7/dist-packages (from tensorflow) (3.3.0)

Requirement already satisfied: wrapt>=1.11.0 in /usr/local/lib/python3.7/dist-packages (from tensorflow) (1.14.1)

Requirement already satisfied: astunparse>=1.6.0 in /usr/local/lib/python3.7/dist-packages (from tensorflow) (1.6.3)

Requirement already satisfied: numpy>=1.20 in /usr/local/lib/python3.7/dist-packages (from tensorflow) (1.21.6)

Requirement already satisfied: six>=1.12.0 in /usr/local/lib/python3.7/dist-packages (from tensorflow) (1.15.0)

Requirement already satisfied: keras<2.10.0,>=2.9.0rc0 in /usr/local/lib/python3.7/dist-packages (from tensorflow) (2.9.0)

Requirement already satisfied: absl-py>=1.0.0 in /usr/local/lib/python3.7/dist-packages (from tensorflow) (1.3.0)

Requirement already satisfied: termcolor>=1.1.0 in /usr/local/lib/python3.7/dist-packages (from tensorflow) (2.0.1)

Requirement already satisfied: flatbuffers<2,>=1.12 in /usr/local/lib/python3.7/dist-packages (from tensorflow) (1.12)

Requirement already satisfied: packaging in /usr/local/lib/python3.7/dist-packages (from tensorflow) (21.3)

Requirement already satisfied: gast<=0.4.0,>=0.2.1 in /usr/local/lib/python3.7/dist-packages (from tensorflow) (0.4.0)

Requirement already satisfied: typing-extensions>=3.6.6 in /usr/local/lib/python3.7/dist-packages (from tensorflow) (4.1.1)

Requirement already satisfied: tensorflow-estimator<2.10.0,>=2.9.0rc0 in /usr/local/lib/python3.7/dist-packages (from tensorflow) (2.9.0)

Requirement already satisfied: protobuf<3.20,>=3.9.2 in /usr/local/lib/python3.7/dist-packages (from tensorflow) (3.17.3)

Requirement already satisfied: grpcio<2.0,>=1.24.3 in /usr/local/lib/python3.7/dist-packages (from tensorflow) (1.50.0)

Requirement already satisfied: google-pasta>=0.1.1 in /usr/local/lib/python3.7/dist-packages (from tensorflow) (0.2.0)

Requirement already satisfied: setuptools in /usr/local/lib/python3.7/dist-packages (from tensorflow) (57.4.0)

Requirement already satisfied: libclang>=13.0.0 in /usr/local/lib/python3.7/dist-packages (from tensorflow) (14.0.6)

Requirement already satisfied: keras-preprocessing>=1.1.1 in /usr/local/lib/python3.7/dist-packages (from tensorflow) (1.1.2)

Requirement already satisfied: h5py>=2.9.0 in /usr/local/lib/python3.7/dist-packages (from tensorflow) (3.1.0)

Requirement already satisfied: tensorboard<2.10,>=2.9 in /usr/local/lib/python3.7/dist-packages (from tensorflow) (2.9.1)

Requirement already satisfied: tensorflow-io-gcs-filesystem>=0.23.1 in /usr/local/lib/python3.7/dist-packages (from tensorflow) (0.27.0)

Requirement already satisfied: wheel<1.0,>=0.23.0 in /usr/local/lib/python3.7/dist-packages (from astunparse>=1.6.0->tensorflow) (0.37.1)

Requirement already satisfied: cached-property in /usr/local/lib/python3.7/dist-packages (from h5py>=2.9.0->tensorflow) (1.5.2)

Requirement already satisfied: tensorboard-data-server<0.7.0,>=0.6.0 in /usr/local/lib/python3.7/dist-packages (from tensorboard<2.10,>=2.9->tensorflow) (0.6.1)

Requirement already satisfied: markdown>=2.6.8 in /usr/local/lib/python3.7/dist-packages (from tensorboard<2.10,>=2.9->tensorflow) (3.4.1)

Requirement already satisfied: google-auth<3,>=1.6.3 in /usr/local/lib/python3.7/dist-packages (from tensorboard<2.10,>=2.9->tensorflow) (1.35.0)

Requirement already satisfied: tensorboard-plugin-wit>=1.6.0 in /usr/local/lib/python3.7/dist-packages (from tensorboard<2.10,>=2.9->tensorflow) (1.8.1)

Requirement already satisfied: google-auth-oauthlib<0.5,>=0.4.1 in /usr/local/lib/python3.7/dist-packages (from tensorboard<2.10,>=2.9->tensorflow) (0.4.6)

Requirement already satisfied: requests<3,>=2.21.0 in /usr/local/lib/python3.7/dist-packages (from tensorboard<2.10,>=2.9->tensorflow) (2.23.0)

Requirement already satisfied: werkzeug>=1.0.1 in /usr/local/lib/python3.7/dist-packages (from tensorboard<2.10,>=2.9->tensorflow) (1.0.1)

Requirement already satisfied: cachetools<5.0,>=2.0.0 in /usr/local/lib/python3.7/dist-packages (from google-auth<3,>=1.6.3->tensorboard<2.10,>=2.9->tensorflow) (4.2.4)

Requirement already satisfied: pyasn1-modules>=0.2.1 in /usr/local/lib/python3.7/dist-packages (from google-auth<3,>=1.6.3->tensorboard<2.10,>=2.9->tensorflow) (0.2.8)

Requirement already satisfied: rsa<5,>=3.1.4 in /usr/local/lib/python3.7/dist-packages (from google-auth<3,>=1.6.3->tensorboard<2.10,>=2.9->tensorflow) (4.9)

Requirement already satisfied: requests-oauthlib>=0.7.0 in /usr/local/lib/python3.7/dist-packages (from google-auth-oauthlib<0.5,>=0.4.1->tensorboard<2.10,>=2.9->tensorflow) (1.3.1)

Requirement already satisfied: importlib-metadata>=4.4 in /usr/local/lib/python3.7/dist-packages (from markdown>=2.6.8->tensorboard<2.10,>=2.9->tensorflow) (4.13.0)

Requirement already satisfied: zipp>=0.5 in /usr/local/lib/python3.7/dist-packages (from importlib-metadata>=4.4->markdown>=2.6.8->tensorboard<2.10,>=2.9->tensorflow) (3.10.0)

Requirement already satisfied: pyasn1<0.5.0,>=0.4.6 in /usr/local/lib/python3.7/dist-packages (from pyasn1-modules>=0.2.1->google-auth<3,>=1.6.3->tensorboard<2.10,>=2.9->tensorflow) (0.4.8)

Requirement already satisfied: certifi>=2017.4.17 in /usr/local/lib/python3.7/dist-packages (from requests<3,>=2.21.0->tensorboard<2.10,>=2.9->tensorflow) (2022.9.24)

Requirement already satisfied: chardet<4,>=3.0.2 in /usr/local/lib/python3.7/dist-packages (from requests<3,>=2.21.0->tensorboard<2.10,>=2.9->tensorflow) (3.0.4)

Requirement already satisfied: idna<3,>=2.5 in /usr/local/lib/python3.7/dist-packages (from requests<3,>=2.21.0->tensorboard<2.10,>=2.9->tensorflow) (2.10)

Requirement already satisfied: urllib3!=1.25.0,!=1.25.1,<1.26,>=1.21.1 in /usr/local/lib/python3.7/dist-packages (from requests<3,>=2.21.0->tensorboard<2.10,>=2.9->tensorflow) (1.24.3)

Requirement already satisfied: oauthlib>=3.0.0 in /usr/local/lib/python3.7/dist-packages (from requests-oauthlib>=0.7.0->google-auth-oauthlib<0.5,>=0.4.1->tensorboard<2.10,>=2.9->tensorflow) (3.2.2)

Requirement already satisfied: pyparsing!=3.0.5,>=2.0.2 in /usr/local/lib/python3.7/dist-packages (from packaging->tensorflow) (3.0.9)

Looking in indexes: https://pypi.org/simple, https://us-python.pkg.dev/colab-wheels/public/simple/

Requirement already satisfied: opencv-python in /usr/local/lib/python3.7/dist-packages (4.6.0.66)

Requirement already satisfied: numpy>=1.14.5 in /usr/local/lib/python3.7/dist-packages (from opencv-python) (1.21.6)

Looking in indexes: https://pypi.org/simple, https://us-python.pkg.dev/colab-wheels/public/simple/

Requirement already satisfied: opencv-contrib-python in /usr/local/lib/python3.7/dist-packages (4.6.0.66)

Requirement already satisfied: numpy>=1.14.5 in /usr/local/lib/python3.7/dist-packages (from opencv-contrib-python) (1.21.6)

In [ ]:

train**=**ImageDataGenerator(rescale**=**1.**/**255,

shear\_range**=**0.2,

rotation\_range**=**180,

zoom\_range**=**0.2,

horizontal\_flip**=True**)

train **=** ImageDataGenerator(rescale**=**1**/**255)

test **=** ImageDataGenerator(rescale**=**1**/**255)

In [ ]:

train\_dataset **=** train**.**flow\_from\_directory("/content/drive/MyDrive/dataset/Dataset/Dataset/train\_set",

target\_size**=**(128,128),

batch\_size **=** 32,

class\_mode **=** 'binary' )

Found 436 images belonging to 2 classes.

In [ ]:

test\_dataset **=** test**.**flow\_from\_directory("/content/drive/MyDrive/dataset/Dataset/Dataset/test\_set",

target\_size**=**(128,128),

batch\_size **=** 32,

class\_mode **=** 'binary' )

Found 121 images belonging to 2 classes.

In [ ]:

test\_dataset**.**class\_indices

Out[ ]:

{'forest': 0, 'with fire': 1}

In [ ]:

*#to define linear initialisation import sequential*

**from** keras.models **import** Sequential

*#to add layer 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')

In [ ]:

model **=** keras**.**Sequential()

model**.**add(Convolution2D(32,(3,3),input\_shape**=**(128,128,3),activation**=**'relu'))

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

model**.**add(Convolution2D(32,(3,3),activation**=**'relu'))

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

model**.**add(Convolution2D(32,(3,3),activation**=**'relu'))

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

model**.**add(Convolution2D(32,(3,3),activation**=**'relu'))

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

model**.**add(Flatten())

In [ ]:

model**.**add(Dense(150,activation**=**'relu'))

model**.**add(Dense(1,activation**=**'sigmoid'))

In [ ]:

model**.**compile(loss **=** 'binary\_crossentropy',

optimizer **=** "adam",

metrics **=** ["accuracy"])

In [ ]:

r **=** model**.**fit(train\_dataset, epochs **=** 5, validation\_data **=** test\_dataset)

Epoch 1/5

14/14 [==============================] - 245s 18s/step - loss: 0.5671 - accuracy: 0.7041 - val\_loss: 0.2801 - val\_accuracy: 0.9421

Epoch 2/5

14/14 [==============================] - 30s 2s/step - loss: 0.3847 - accuracy: 0.8280 - val\_loss: 0.2640 - val\_accuracy: 0.8678

Epoch 3/5

14/14 [==============================] - 27s 2s/step - loss: 0.3057 - accuracy: 0.8486 - val\_loss: 0.1880 - val\_accuracy: 0.9504

Epoch 4/5

14/14 [==============================] - 29s 2s/step - loss: 0.2268 - accuracy: 0.9174 - val\_loss: 0.0659 - val\_accuracy: 1.0000

Epoch 5/5

14/14 [==============================] - 27s 2s/step - loss: 0.1779 - accuracy: 0.9427 - val\_loss: 0.0386 - val\_accuracy: 0.9917

In [ ]:

predictions **=** model**.**predict(test\_dataset)

predictions **=** np**.**round(predictions)

4/4 [==============================] - 5s 1s/step

In [ ]:

predictions

Out[ ]:

array([[0.],

[0.],

[0.],

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[1.]], dtype=float32)

In [ ]:

print(len(predictions))

121

In [ ]:

model**.**save("forest2.h5")

In [ ]:

*#import load\_model from keras.model*

**from** keras.models **import** load\_model

*#import image class from keras*

**import** tensorflow **as** tf

**from** tensorflow.keras.preprocessing **import** image

*#import numpy*

**import** numpy **as** np

*#import cv2*

**import** cv2

In [ ]:

model **=** load\_model("forest2.h5")

In [ ]:

**def** predictImage(filename):

img1 **=** image**.**load\_img(filename,target\_size**=**(128,128))

Y **=** image**.**img\_to\_array(img1)

X **=** np**.**expand\_dims(Y,axis**=**0)

val **=** model**.**predict(X)

print(val)

**if** val **==** 1:

print(" fire")

**elif** val **==** 0:

print("no fire")

In [ ]:

predictImage("/content/ff2.jpg")

1/1 [==============================] - 0s 292ms/step

[[1.]]

fire

In [ ]:

pip install twilio

Looking in indexes: https://pypi.org/simple, https://us-python.pkg.dev/colab-wheels/public/simple/

Collecting twilio

Downloading twilio-7.15.1-py2.py3-none-any.whl (1.4 MB)

|████████████████████████████████| 1.4 MB 3.9 MB/s

Requirement already satisfied: pytz in /usr/local/lib/python3.7/dist-packages (from twilio) (2022.5)

Collecting PyJWT<3.0.0,>=2.0.0

Downloading PyJWT-2.6.0-py3-none-any.whl (20 kB)

Requirement already satisfied: requests>=2.0.0 in /usr/local/lib/python3.7/dist-packages (from twilio) (2.23.0)

Requirement already satisfied: urllib3!=1.25.0,!=1.25.1,<1.26,>=1.21.1 in /usr/local/lib/python3.7/dist-packages (from requests>=2.0.0->twilio) (1.24.3)

Requirement already satisfied: chardet<4,>=3.0.2 in /usr/local/lib/python3.7/dist-packages (from requests>=2.0.0->twilio) (3.0.4)

Requirement already satisfied: certifi>=2017.4.17 in /usr/local/lib/python3.7/dist-packages (from requests>=2.0.0->twilio) (2022.9.24)

Requirement already satisfied: idna<3,>=2.5 in /usr/local/lib/python3.7/dist-packages (from requests>=2.0.0->twilio) (2.10)

Installing collected packages: PyJWT, twilio

Successfully installed PyJWT-2.6.0 twilio-7.15.1

In [ ]:

pip install playsound

Looking in indexes: https://pypi.org/simple, https://us-python.pkg.dev/colab-wheels/public/simple/

Collecting playsound

Downloading playsound-1.3.0.tar.gz (7.7 kB)

Building wheels for collected packages: playsound

Building wheel for playsound (setup.py) ... done

Created wheel for playsound: filename=playsound-1.3.0-py3-none-any.whl size=7035 sha256=60a9cc85c1c7ed691a245db193a7bfc11ad5d53c8e3fca997f2868ed89e4b0ec

Stored in directory: /root/.cache/pip/wheels/ba/f8/bb/ea57c0146b664dca3a0ada4199b0ecb5f9dfcb7b7e22b65ba2

Successfully built playsound

Installing collected packages: playsound

Successfully installed playsound-1.3.0

In [ ]:

*#import opencv librariy*

**import** cv2

*#import numpy*

**import** numpy **as** np

*#import image function from keras*

**from** keras.preprocessing **import** image

*#import load\_model from keras*

**from** keras.models **import** load\_model

*#import client from twilio API*

**from** twilio.rest **import** Client

*#imort playsound package*

**from** playsound **import** playsound

WARNING:playsound:playsound is relying on another python subprocess. Please use `pip install pygobject` if you want playsound to run more efficiently.

In [ ]:

*#load the saved model*

model **=** load\_model(r'forest2.h5')

*#define video*

video **=** cv2**.**VideoCapture('/content/Fighting Fire with Fire \_ Explained in 30 Seconds.mp4')

*#define the features*

name **=** ['forest','with forest']

In [ ]:

account\_sid **=** 'AC1a5f39010ff28fb1d8407e86df2e2bde'

auth\_token **=** '6d9eaf657223402abe3b69ab5ead5122'

client **=** Client(account\_sid, auth\_token)

message **=** client**.**messages \

**.**create(

body**=**'Forest fire is detected , stay alert',

from\_**=**'+12183044047',

to**=**'+917094810572'

)

print(message**.**sid)

SM84110c6c51611aca506fe559f0426ad8

In [ ]:

*#import opencv library*

**import** cv2

*#import numpy*

**import** numpy **as** np

*#import images and load\_model function from keras*

**from** keras\_preprocessing **import** image

**from** keras.models **import** load\_model

*#import client from twilio API*

**from** twilio.rest **import** Client

*#import playsound package*

**from** playsound **import** playsound

*#load the saved model*

model **=** load\_model(r'forest1.h5')

video **=** cv2**.**VideoCapture('/content/Fighting Fire with Fire \_ Explained in 30 Seconds.mp4')

name **=** ['forest','with fire']