from google.colab import drive

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

Mounted at /content/drive/

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

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

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!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)

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)

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.

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.

test\_dataset.class\_indices

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

#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')

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())

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

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

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

optimizer = "adam",

metrics = ["accuracy"])

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

predictions = model.predict(test\_dataset)

predictions = np.round(predictions)

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

predictions

array([[0.],

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[1.]], dtype=float32)

print(len(predictions))

121

model.save("forest2.h5")

#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

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

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")

predictImage("/content/ff2.jpg")

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

[[1.]]

fire

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

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

#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.

#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']

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

#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']