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"!pip install opencv-contrib-python\n",

"import tensorflow as tf\n",

"import numpy as np\n",

"from tensorflow import keras\n",

"import os\n",

"import cv2\n",

"from tensorflow.keras.preprocessing.image import ImageDataGenerator\n",

"from tensorflow.keras.preprocessing import image"

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

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"train = ImageDataGenerator(rescale=1/255)\n",

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

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" target\_size=(128,128),\n",

" batch\_size = 32,\n",

" class\_mode = 'binary' )"

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"Found 436 images belonging to 2 classes.\n"

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"Found 121 images belonging to 2 classes.\n"

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"#to define linear initialisation import sequential\n",

"from keras.models import Sequential\n",

"#to add layer import Dense\n",

"from keras.layers import Dense\n",

"#to create convolution kernel import convolution2D\n",

"from keras.layers import Convolution2D\n",

"#import Maxpooling layer\n",

"from keras.layers import MaxPooling2D\n",

"#import flatten layer\n",

"from keras.layers import Flatten\n",

"import warnings\n",

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

"model.add(Convolution2D(32,(3,3),activation='relu'))\n",

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"model.add(Convolution2D(32,(3,3),activation='relu'))\n",

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

"model.add(Flatten())"

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

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" optimizer = \"adam\",\n",

" metrics = [\"accuracy\"])"

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"14/14 [==============================] - 146s 10s/step - loss: 0.5411 - accuracy: 0.7362 - val\_loss: 0.2099 - val\_accuracy: 0.9504\n",

"Epoch 2/5\n",

"14/14 [==============================] - 25s 2s/step - loss: 0.2775 - accuracy: 0.8807 - val\_loss: 0.2187 - val\_accuracy: 0.8926\n",

"Epoch 3/5\n",

"14/14 [==============================] - 25s 2s/step - loss: 0.2991 - accuracy: 0.8532 - val\_loss: 0.2396 - val\_accuracy: 0.9256\n",

"Epoch 4/5\n",

"14/14 [==============================] - 25s 2s/step - loss: 0.2643 - accuracy: 0.8899 - val\_loss: 0.0606 - val\_accuracy: 0.9835\n",

"Epoch 5/5\n",

"14/14 [==============================] - 25s 2s/step - loss: 0.1849 - accuracy: 0.9243 - val\_loss: 0.0536 - val\_accuracy: 0.9917\n"

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"predictions = model.predict(test\_dataset)\n",

"predictions = np.round(predictions)"

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"from keras.models import load\_model\n",

"#import image class from keras\n",

"import tensorflow as tf\n",

"from tensorflow.keras.preprocessing import image\n",

"#import numpy\n",

"import numpy as np\n",

"#import cv2\n",

"import cv2"

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"model = load\_model(\"/content/drive/MyDrive/archive (1)/forest1.h5\")"

],

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"execution\_count": null,

"outputs": []

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"def predictImage(filename):\n",

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

" Y = image.img\_to\_array(img1)\n",

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

" val = model.predict(X)\n",

" print(val)\n",

" if val == 1:\n",

" print(\" fire\")\n",

" elif val == 0:\n",

" print(\"no fire\")"

],

"metadata": {

"id": "veKUj13yTkmI"

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"execution\_count": null,

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{

"cell\_type": "code",

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"predictImage(\"/content/drive/MyDrive/archive (1)/Dataset/Dataset/test\_set/with fire/Forest\_Fire (3).jpg\")"

],

"metadata": {

"colab": {

"base\_uri": "https://localhost:8080/"

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"id": "GX\_ea74DTqHI",

"outputId": "2bfd8fbd-3e8f-4a8e-abc2-4253d03a4dd1"

},

"execution\_count": null,

"outputs": [

{

"output\_type": "stream",

"name": "stdout",

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"1/1 [==============================] - 0s 96ms/step\n",

"[[1.]]\n",

" fire\n"

]

}

]

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{

"cell\_type": "code",

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"pip install twilio"

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

"Collecting twilio\n",

" Downloading twilio-7.15.1-py2.py3-none-any.whl (1.4 MB)\n",

"\u001b[K |████████████████████████████████| 1.4 MB 9.6 MB/s \n",

"\u001b[?25hCollecting PyJWT<3.0.0,>=2.0.0\n",

" Downloading PyJWT-2.6.0-py3-none-any.whl (20 kB)\n",

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

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

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

"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)\n",

"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)\n",

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

"Installing collected packages: PyJWT, twilio\n",

"Successfully installed PyJWT-2.6.0 twilio-7.15.1\n"

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"pip install playsound"

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"outputId": "2fc8b3e1-877d-46ec-d123-8593f1c9da33"

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

"Collecting playsound\n",

" Downloading playsound-1.3.0.tar.gz (7.7 kB)\n",

"Building wheels for collected packages: playsound\n",

" Building wheel for playsound (setup.py) ... \u001b[?25l\u001b[?25hdone\n",

" Created wheel for playsound: filename=playsound-1.3.0-py3-none-any.whl size=7035 sha256=58c730885ef477f0bdfa405c910ad06d569eecb53e6f36465f325ce0a120aa92\n",

" Stored in directory: /root/.cache/pip/wheels/ba/f8/bb/ea57c0146b664dca3a0ada4199b0ecb5f9dfcb7b7e22b65ba2\n",

"Successfully built playsound\n",

"Installing collected packages: playsound\n",

"Successfully installed playsound-1.3.0\n"

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"#import opencv librariy\n",

"import cv2\n",

"#import numpy\n",

"import numpy as np\n",

"#import image function from keras\n",

"from keras.preprocessing import image\n",

"#import load\_model from keras\n",

"from keras.models import load\_model\n",

"#import client from twilio API\n",

"from twilio.rest import Client\n",

"#imort playsound package\n",

"from playsound import playsound"

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"outputId": "a9e49635-f688-494d-a169-253f5dfbed29"

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"execution\_count": null,

"outputs": [

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"output\_type": "stream",

"name": "stderr",

"text": [

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

]

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]

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"cell\_type": "code",

"source": [

"#load the saved model\n",

"model = load\_model(r'/content/drive/MyDrive/archive (1)/forest1.h5')\n",

"#define video\n",

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

"#define the features\n",

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

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"metadata": {

"id": "L6SAw7HSUsuy"

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"execution\_count": null,

"outputs": []

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"cell\_type": "code",

"source": [

"account\_sid = 'AC9e15eae056ba54ebe61e3ed93d4f2658'\n",

"auth\_token = 'a049c8a7500762182c3fa47a9fa239f7'\n",

"client = Client(account\_sid, auth\_token)\n",

"\n",

"message = client.messages \\\n",

" .create(\n",

" body='Forest fire is detected , stay alert',\n",

" from\_='+19472104724',\n",

" to='+919361221241'\n",

" )\n",

"\n",

"print(message.sid)"

],

"metadata": {

"colab": {

"base\_uri": "https://localhost:8080/"

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"outputId": "219f8ddb-7081-4518-c7f5-632be6120db6"

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"SM98f0e902a5dbacc0a2c578b2fde3a14c\n"

]

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{

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"source": [

"#import opencv library\n",

"import cv2\n",

"#import numpy\n",

"import numpy as np\n",

"#import images and load\_model function from keras\n",

"from keras\_preprocessing import image\n",

"from keras.models import load\_model\n",

"#import client from twilio API\n",

"from twilio.rest import Client\n",

"#import playsound package\n",

"from playsound import playsound\n",

"\n",

"#load the saved model\n",

"model = load\_model(r'/content/drive/MyDrive/archive (1)/forest1.h5')\n",

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

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

],

"metadata": {

"id": "6wANTNLjWqOs"

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"execution\_count": null,

"outputs": []

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}