

```
!pip install flask-ngrok
```

```
Looking in indexes: https://pypi.org/simple, https://us-python.pkg.dev/colab-wheels/public/simple/
Collecting flask-ngrok
  Downloading flask_ngrok-0.0.25-py3-none-any.whl (3.1 kB)
Requirement already satisfied: requests in /usr/local/lib/python3.9/dist-packages (from flask-ngrok) (2.27.1)
Requirement already satisfied: Flask>=0.8 in /usr/local/lib/python3.9/dist-packages (from flask-ngrok) (2.2.3)
Requirement already satisfied: itsdangerous>=2.0 in /usr/local/lib/python3.9/dist-packages (from Flask>=0.8->flask) (2.1.2)
Requirement already satisfied: Jinja2>=3.0 in /usr/local/lib/python3.9/dist-packages (from Flask>=0.8->flask-ngrok) (3.1.2)
Requirement already satisfied: click>=8.0 in /usr/local/lib/python3.9/dist-packages (from Flask>=0.8->flask-ngrok) (8.0.3)
Requirement already satisfied: Werkzeug>=2.2.2 in /usr/local/lib/python3.9/dist-packages (from Flask>=0.8->flask-ngrok) (2.2.2)
Requirement already satisfied: importlib-metadata>=3.6.0 in /usr/local/lib/python3.9/dist-packages (from Flask>=0.8->flask-ngrok) (6.0.0)
Requirement already satisfied: idna<4,>=2.5 in /usr/local/lib/python3.9/dist-packages (from requests->flask-ngrok) (3.4)
Requirement already satisfied: urllib3<1.27,>=1.21.1 in /usr/local/lib/python3.9/dist-packages (from requests->flask-ngrok) (1.26.15)
Requirement already satisfied: certifi>=2017.4.17 in /usr/local/lib/python3.9/dist-packages (from requests->flask-ngrok) (2022.9.24)
Requirement already satisfied: charset-normalizer~2.0.0 in /usr/local/lib/python3.9/dist-packages (from requests->flask-ngrok) (2.0.12)
Requirement already satisfied: zipp>=0.5 in /usr/local/lib/python3.9/dist-packages (from importlib-metadata>=3.6.0) (3.10.0)
Requirement already satisfied: MarkupSafe>=2.0 in /usr/local/lib/python3.9/dist-packages (from Jinja2>=3.0->Flask) (2.1.1)
Installing collected packages: flask-ngrok
Successfully installed flask-ngrok-0.0.25
```

```
from io import BytesIO
from IPython.display import display
from PIL import Image
from tensorflow.keras.preprocessing import image
from tensorflow.keras.applications.resnet50 import preprocess_input, decode_predictions
```

```
import ipywidgets as widgets
import io
import matplotlib.pyplot as plt
import numpy as np
import requests
import tensorflow as tf
import tensorflow_hub as hub
import time
```

```
content_image = None # This needs to be in global scope
img_path = 'image.png'
```

```
def button_click(change):
    global content_image
    img = Image.open(io.BytesIO(uploader.data[-1]))
    content_image = img
    img.save(img_path)
```

```
uploader = widgets.FileUpload()
show_button = widgets.Button(description='Upload image')
show_button.on_click(button_click)
```

```
widgets.VBox([widgets.Label('Upload a content image (must be an RGB or RGBA image). High-res images might take more time
```

```
Upload a content image (must be an RGB or RGBA image). High-res images might take more time to be p...
```

```
Upload (1)
```

```
Upload image
```

```
import os
os.chdir('/content/drive/MyDrive/Alzheimer_s Dataset/test/MildDemented')
```

```
img = img_path
if content_image is None:
    img = "https://storage.googleapis.com/tomorrow-city/assets/migration/2019/04/architecture-buildings-cars.jpg"
```

```

import os

haarcascades = os.path.join(os.path.dirname( "/content/drive/MyDrive/Alzheimer_s Dataset/test/MildDemented"))

import cv2
from PIL import ImageTk, Image
import tkinter as tk
from tkinter.filedialog import askopenfilename

def browse():
    filename = askopenfilename(initialdir=".", title="select a file",
                               filetype=((("png files","*.png"),("allfiles","*..*"))))
    if not filename:
        return # User didn't select a file.

    tk.Label(root, text=filename).pack()
    my_image = ImageTk.PhotoImage(Image.open(filename))
    img_lbl = tk.Label(image=my_image)
    img_lbl.img = my_image # Save reference to image.
    img_lbl.pack()

    img = cv2.imread(filename)
    show_image(img)

def show_image(img):
    cv2.imshow(" ", img)
    cv2.waitKey(0)
    cv2.destroyAllWindows()

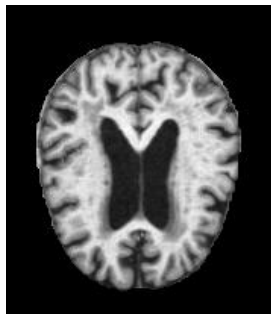
img = img_path
if content_image is None:
    img = ("/content/drive/MyDrive/Alzheimer_s Dataset/test/MildDemented/26 (23).jpg")
load_image:any

!wget https://upload./content/drive/MyDrive/Alzheimer_s Dataset/test/MildDemented/32 (3).jpgsvg.png

/bin/bash: -c: line 0: syntax error near unexpected token `('
/bin/bash: -c: line 0: `wget https://upload./content/drive/MyDrive/Alzheimer_s Dataset/test/MildDemented/32 (3).jp

from IPython.display import Image
Image('/content/drive/MyDrive/Alzheimer_s Dataset/test/MildDemented/26 (20).jpg')

```



```

import keras
from keras.models import Sequential
from keras.layers import Dense
from keras.models import load_model

#empty model
classifier = Sequential()

```

```
#add layers, start with hidden layer and first deep layer
p = 0.1

from sklearn.metrics import classification_report

import tensorflow as tf
import keras
model = keras.models.load_model

m = tf.keras.Sequential

model = tf.keras.Sequential([
    tf.keras.layers.Conv2D(32, (3, 3), activation = 'relu', input_shape = (150, 150, 3)),
    tf.keras.layers.MaxPooling2D(2,2),
    tf.keras.layers.Conv2D(32, (3, 3), activation = 'relu'),
    tf.keras.layers.MaxPooling2D(2,2),
    tf.keras.layers.Flatten(),
    tf.keras.layers.Dense(128, activation=tf.nn.relu),
    tf.keras.layers.Dense(6, activation=tf.nn.softmax)
])

model.compile(optimizer = 'adam', loss = 'sparse_categorical_crossentropy', metrics=['accuracy'])
```

! 0s completed at 14:01

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