import cv2

#imorted Computer Vision for Python

#CV-Python is just a wrapper for original Computer Vision

from tkinter import filedialog

# tkinter lib is used to allow the user to select an image file

path=filedialog.askopenfilename(initialdir="/", title="Select Image",filetypes=(("JPEG",".jpg"),("all files","\*.\*")))

# path var stores the file path selected by user

Bot=cv2.CascadeClassifier("haarcascade\_frontalface\_default.xml")

#Creating a classifier to train on haarcascade frontal face default to detect faces in images

Test=cv2.imread(path,1)

#

Test\_grey=cv2.cvtColor(Test,cv2.COLOR\_BGR2GRAY)

Results=Bot.detectMultiScale(Test\_grey,scaleFactor=1.2,minNeighbors=5)

for a,b,c,d in Results:

Test=cv2.rectangle(Test,(a,b),(a+c,b+d),(0,255,0),3)

Resized\_Result=cv2.resize(Test,(int(Test.shape[1]/2),int(Test.shape[0]/2)))

cv2.imshow("Final",Resized\_Result)

cv2.waitKey(0)

cv2.destroyAllWindows()