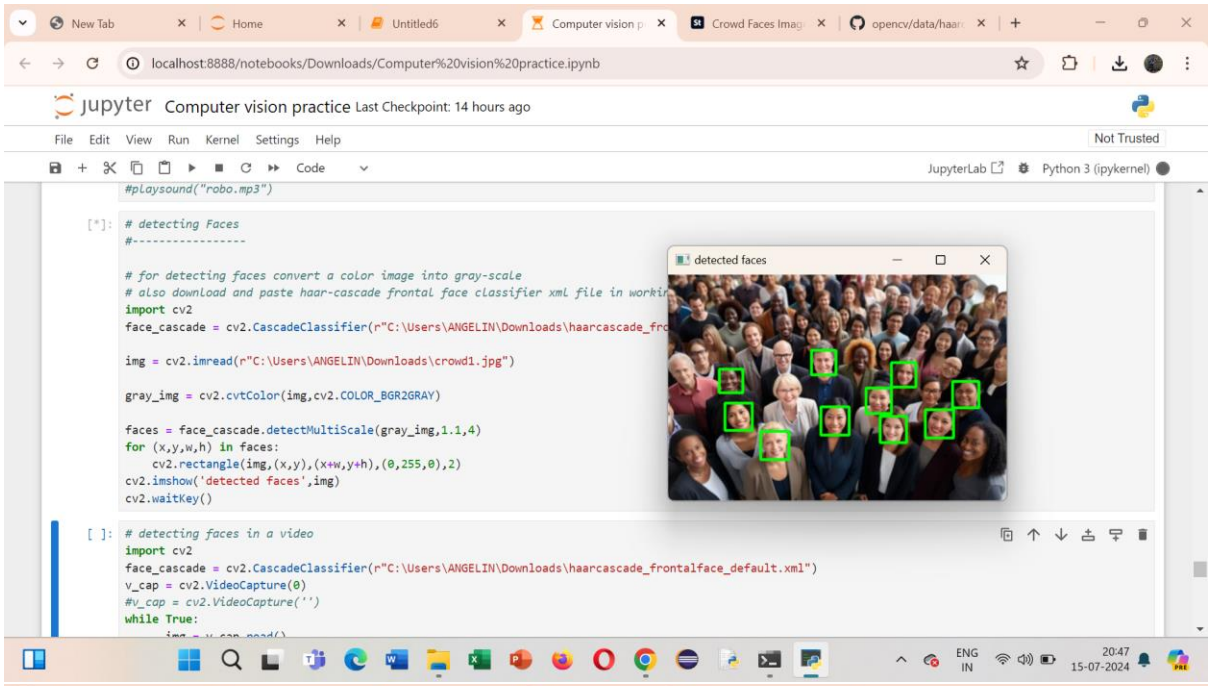
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Code
JupyterLab
Python 3 (ipykernel)
#playsound("robo.mp3")
[*]:
detecting Faces
#----------------
# for detecting faces convert a color image into gray-scale
# also download and paste haar-cascade frontal face classifier xml file in workin
import cv2
face_cascade = cv2.CascadeClassifier(r"C:\Users\ANGELIN\Downloads\haarcascade_fro
img = cv2.imread(r"C:\Users\ANGELIN\Downloads\crowd1.jpg")
gray_img = cv2.cvtColor(img,cv2.COLOR_BGR2GRAY)
faces = face_cascade.detectMultiScale(gray_img,1.1,4)
for (x,y,w,h) in faces:
cv2.rectangle(img,(x,y),(x+w,y+h),(0,255,0),2)
cv2.imshow('detected faces',img)
cv2.waitKey()
detected faces
[ ]:
# detecting faces in a video
import cv2
face_cascade = cv2.CascadeClassifier(r"C:\Users\ANGELIN\Downloads\haarcascade_frontalface_default.xml")
v_cap = cv2.VideoCapture(0)
#v_cap = cv2.VideoCapture('')
while True:
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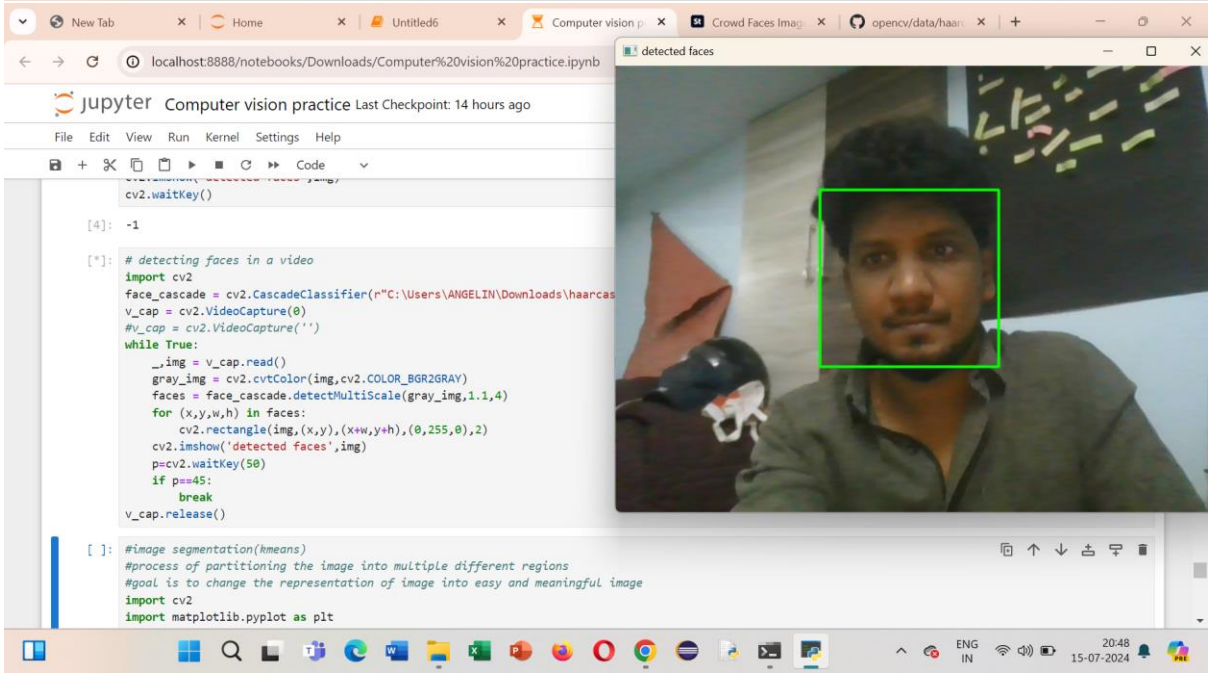
15-07-2024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Code
cv2.waitKey()
[4]:
-1
[*]:
# detecting faces in a video
import cv2
face_cascade = cv2.CascadeClassifier(r"C:\Users\ANGELIN\Downloads\haarcas
v_cap = cv2.VideoCapture(0)
#v_cap = cv2.VideoCapture('')
while True:
_,img = v_cap.read()
gray_img = cv2.cvtColor(img,cv2.COLOR_BGR2GRAY)
faces = face_cascade.detectMultiScale(gray_img,1.1,4)
for (x,y,w,h) in faces:
cv2.rectangle(img,(x,y),(x+w,y+h),(0,255,0),2)
cv2.imshow('detected faces',img)
p=cv2.waitKey(50)
if p==45:
break
v_cap.release()
detected faces
[ ]:
#image segmentation(kmeans)
#process of partitioning the image into multiple different regions
#goal is to change the representation of image into easy and meaningful image
import cv2
import matplotlib.pyplot as plt
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15-07-2024