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19BEE1216

Assignment 6

Develop a python code to detect any object using Haar cascade classifier.

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import ov2
face_classifier=ov2.CascadeClassifier("haarcascade_frontalface_default.wnl")
eye classifier-cv2.CascadeClassifier("haardascade eye xml")
#If will read the first frame/inage of the video
video=cv2.VideoCapture(0)
     check frame=video read()
    gray-cv2.cvtColor(frame, cv2.COLOR_BGR2GRAY)
     #detect the faces from the wideo using detectMultiScale function
    faces=face_classifier.detectMultiScale(gray, 1.3,5)
eyes=eye_classifier.detectMultiScale(gray, 1.3,5)
    print (faces)
     #drawing rectangle boundries for the detected face
     for(x,y,w,h) in faces:
cv2.rectangle(frame, (x,y), (x+w,y+h), (127,0,255), 2)
cv2.inshow('Face detaction', frame)
cv2.putText(frame, Face, (x,y-20),cv2.FONT_HERSHEY_SIMPLEX,0.8,(0,255,0.0))
          picname=datetime.datetime.now().strftime("%y-%m-%d-%H-%H")
          ov2.imwrite(pioname+".jpg",frame)
     #drawing rectangle boundries for the detected eyes
     for (ex, ey, ew, eb) in eyes:
          cv2.rectangle(frame, (ex.ey), (ex+ew,ey+eh), (127,0,255), 2) cv2.imshow('Face detection', frame)
     #waitKey(1) - for every 1 millisecond new frame will be captured
     if Key=ord('q'):
frelease the camera
          video.release()
#destroy all windows
cv2.destroyAllWindows()
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Here face and eyes are detected:

