VIT EXTERNSHIP GUIDED PROJECTS

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Assignment No: 5

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

Python Code:

```
import cv2
face=cv2.CascadeClassifier("haarcascade frontalface default(1).xml")
eye=cv2.CascadeClassifier("haarcascade_eye.xml")
#It will read the first frame/image of the video
cam = cv2.VideoCapture(0)
while cam.isOpened():
    is_frame, frame = cam.read()
    face pred = face.detectMultiScale(
            frame, 1.3, 4
       )
    for (x,y,w,h) in face pred:
        frame = cv2.rectangle(frame, (x,y),
        (x+w,y+h),(0,255,0), thickness=2)
        frame = cv2.putText(frame, "Face", (x, y-3),
        cv2.FONT HERSHEY SIMPLEX, fontScale=0.5, thickness=2,
        color=(0,0,255))
    eye pred = eye.detectMultiScale(
            frame, 1.3, 3
    for (x,y,w,h) in eye_pred:
        frame = cv2.rectangle(frame,(x,y),
        (x+w,y+h), (0,255,0), thickness=2)
        frame = cv2.putText(frame, "Eye", (x,y-3),
        cv2.FONT_HERSHEY_SIMPLEX,fontScale=0.5,thickness=2,
        color=(0,0,255))
    cv2.imshow("Object Detection System",frame)
    if cv2.waitKey(2) & 0xFF == ord('q'):
cam.release()
cv2.destroyAllWindows()
```

Output:

Object Detection System

