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import cv2

# Load the pre-trained Haar cascades for face and smile detection
face_cascade = cv2.CascadeClassifier(cv2.data.haarcascades + 'haarcascade_frontalface_default.xml')
smile_cascade = cv2.CascadeClassifier(cv2.data.haarcascades + 'haarcascade_smile.xml')

# Load image
image = cv2.imread(r"C:\Users\SAIL\Downloads\CV\humansmile.jpg")    # Replace with your image file path
gray = cv2.cvtColor(image, cv2.COLOR_BGR2GRAY)

# Detect faces
faces = face_cascade.detectMultiScale(gray, scaleFactor=1.1, minNeighbors=5)

# Iterate over detected faces
for (x, y, w, h) in faces:
    cv2.rectangle(image, (x, y), (x+w, y+h), (255, 0, 0), 2)
    roi_gray = gray[y:y+h, x:x+w]
    roi_color = image[y:y+h, x:x+w]

    # Detect smiles in the face region
    smiles = smile_cascade.detectMultiScale(roi_gray, scaleFactor=1.7, minNeighbors=22)
    for (sx, sy, sw, sh) in smiles:
        cv2.rectangle(roi_color, (sx, sy), (sx+sw, sy+sh), (0, 255, 0), 2)

# Display the result
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cv2.imshow('Smile Detection', image)

cv2.waitKey(0)

cv2.destroyAllWindows()