import cv2

# Initialize face detector

faceCascade = cv2.CascadeClassifier('haarcascade\_frontalface\_default.xml')

# Start video capture

video\_capture = cv2.VideoCapture(0)

while True:

# Capture frame-by-frame

ret, frame = video\_capture.read()

# Detect faces and draw rectangles

faces = faceCascade.detectMultiScale(cv2.cvtColor(frame, cv2.COLOR\_BGR2GRAY), 1.1, 5)

for (x, y, w, h) in faces:

cv2.rectangle(frame, (x, y), (x + w, y + h), (255, 255, 255), 2)

# Display the resulting frame

cv2.imshow('Face Detection', frame)

# Exit on pressing 'q'

if cv2.waitKey(1) & 0xFF == ord('q'):

break

# Release resources

video\_capture.release()

cv2.destroyAllWindows()