5/30/24, 11:52 AM face detection

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import cv2
In [1]:
        # Load the cascade
        face_cascade = cv2.CascadeClassifier(cv2.data.haarcascades + 'haarcascade_frontalfa
        # To use a video file as input
        # cap = cv2.VideoCapture('filename.mp4')
        # To use the webcam on your computer
        cap = cv2.VideoCapture(0)
        while True:
            # Read the frame
            _, img = cap.read()
            # Convert to grayscale
            gray = cv2.cvtColor(img, cv2.COLOR_BGR2GRAY)
            # Detect the faces
            faces = face_cascade.detectMultiScale(gray, 1.1, 4)
            # Draw the rectangle around each face
            for (x, y, w, h) in faces:
                cv2.rectangle(img, (x, y), (x+w, y+h), (255, 0, 0), 2)
            # Display
            cv2.imshow('img', img)
            # Stop if escape key is pressed
            k = cv2.waitKey(30) & 0xff
            if k==27:
                break
        # Release the VideoCapture object
        cap.release()
In [ ]:
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```