Project Development Phase

SPRINT 4

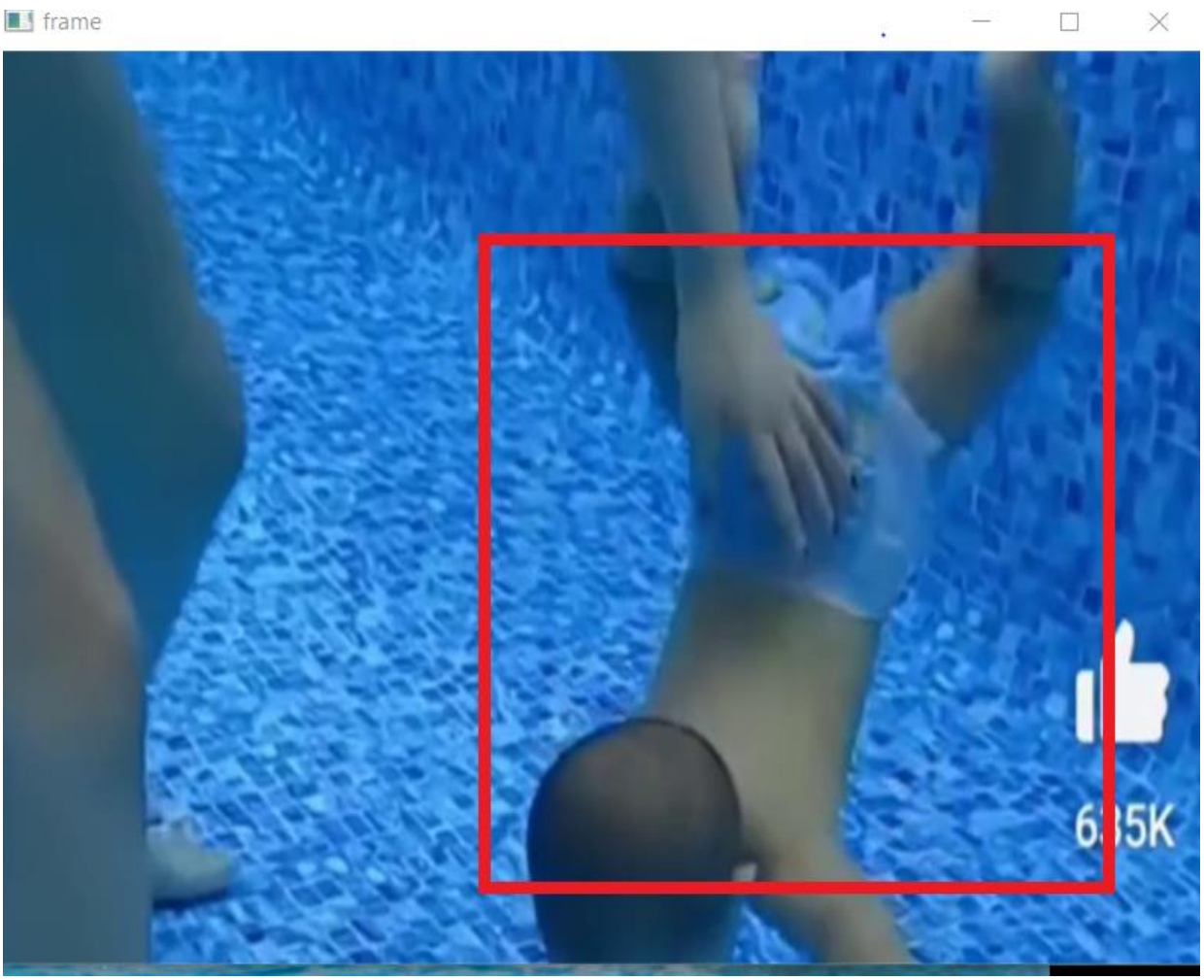
Team ID	PNT2022TMID00150
Project Name	Project – Virtual eye

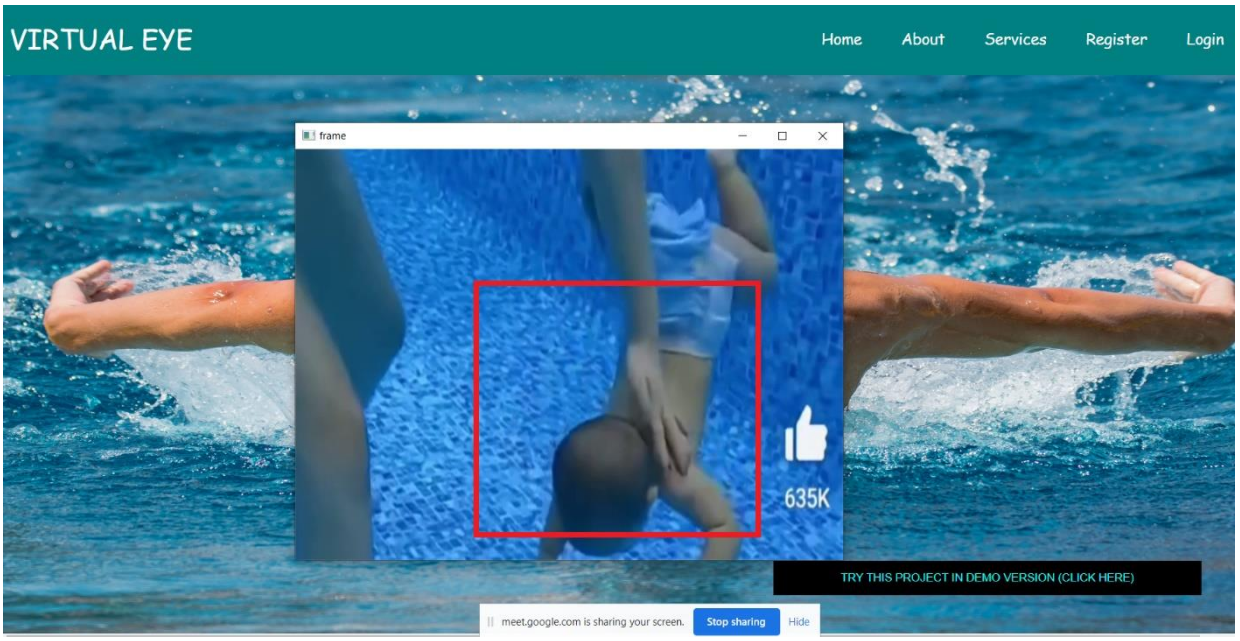
```
    # resizing for faster detection
    frame = cv2.resize(frame, (640, 480))
    # using a greyscale picture, also for faster detection
    gray = cv2.cvtColor(frame, cv2.COLOR_RGB2GRAY)

    # detect people in the image
    # returns the bounding boxes for the detected objects
    boxes, weights = hog.detectMultiScale(frame, winStride=(8, 8))

    boxes = np.array([[x, y, x + w, y + h] for (x, y, w, h) in boxes])

    for (xA, yA, xB, yB) in boxes:
        # display the detected boxes in the colour picture
        cv2.rectangle(frame, (xA, yA), (xB, yB),
                      (0, 255, 0), 2)
        print("Drowning")
    # Display the resulting frame
    cv2.imshow('frame', frame)
```






```
127.0.0.1 - - [19/Nov/2022 11:38:55] "GET /static/swim.jpg HTTP/1.1" 304 -
Drowning
Drowning
Drowning
Drowning
Drowning
```