TRF Task

Object Detection Using Open CV

Code :

import cv2

import numpy as np

cap= cv2.VideoCapture(0)

def nothing (x):

    pass

while True:

    ret, frame = cap.read()

    imgHSV = cv2.cvtColor(frame,cv2.COLOR\_BGR2HSV)

    colorlow = np.array([100,50,50])

    colorhigh = np.array([125,255,255])

    mask = cv2.inRange(imgHSV,colorlow,colorhigh)

    contours,\_ = cv2.findContours(mask,cv2.RETR\_TREE,cv2.CHAIN\_APPROX\_SIMPLE)

    for cnt in contours:

        area = cv2.contourArea(cnt)

        if area > 4000:

            x,y,w,h = cv2.boundingRect(cnt)

            cv2.rectangle(frame,(x,y),(x+w,y+h),(0,255,0),3)

    cv2.imshow("video",mask)

    cv2.imshow("frame",frame)

    val = cv2.waitKey(10)

    if val==27:

        break

cap.release()

cv2.destroyAllWindows()

Output:

