import cv2

import numpy as np

frameWidth = 640 #Frame Width

franeHeight = 480 # Frame Height

plateCascade = cv2.CascadeClassifier("""C:\haarcascade\_russian\_plate\_number.xml""")

minArea = 500

cap =cv2.VideoCapture(0)

cap.set(3,frameWidth)

cap.set(4,franeHeight)

cap.set(10,150)

count = 0

while True:

success , img = cap.read()

imgGray = cv2.cvtColor(img, cv2.COLOR\_BGR2GRAY)

numberPlates: object = plateCascade.detectMultiScale(imgGray, 1.1, 4)

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

area = w\*h

if area > minArea:

cv2.rectangle(img, (x, y), (x + w, y + h), (255, 0, 0), 2)

cv2.putText(img,"NumberPlate",(x,y-5),cv2.FONT\_HERSHEY\_COMPLEX,1,(0,0,255),2)

imgRoi = img[y:y+h,x:x+w]

cv2.imshow("ROI",imgRoi)

cv2.imshow("Result",img)

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

cv2.imwrite("D:\SACHIN\cascade\IMAGES"+str(count)+".jpg",imgRoi)

cv2.rectangle(img,(0,200),(640,300),(0,255,0),cv2.FILLED)

cv2.putText(img,"Scan Saved",(15,265),cv2.FONT\_HERSHEY\_COMPLEX,2,(0,0,255),2)

cv2.imshow("Result",img)

cv2.waitKey(500)

count+=1