6/27/23, 12:18 PM Car detection

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import cv2
In [20]:
         car_cascade = cv2.CascadeClassifier('cars.xml')
In [41]:
         img1 = cv2.imread('cb.jfif')
         img1_copy = img1.copy()
         car_rects = car_cascade.detectMultiScale(img1_copy,1.1,2)
         print(car_rects)
         for (x,y,w,h) in car rects:
             cv2.rectangle(img1\_copy, (x,y), (x+w,y+h), (0,255,0),2)
             cv2.putText(img1_copy, "Detected", (x,y-10), cv2.FONT_HERSHEY_SIMPLEX, 0.5, (0,0,25)
         cv2.imshow("car detection",img1_copy)
         cv2.waitKey(0)
         cv2.destroyAllWindows()
         [[135 222 46 46]]
In [24]: cap = cv2.VideoCapture('video.mp4')
         car_cascade = cv2.CascadeClassifier('cars.xml')
         cnt=0
         while True:
             ret,frames = cap.read()
              gray = cv2.cvtColor(frames, cv2.COLOR_BGR2GRAY)
             cars = car_cascade.detectMultiScale(gray,scaleFactor=1.8,minNeighbors=3)
              for (x,y,w,h) in cars:
                  cv2.rectangle(frames,(x,y),(x+y,y+h),(0,0,255),2)
                  cnt=cnt+1
             cv2.imshow('video2',frames)
             if cv2.waitKey(33) == 27:
                  break
         cv2.destroyAllWindows()
         print(cnt)
         15
```