

# Assignment 6

(Keerti Srivastava)

Develop a python code to detect any object using Haar cascade classifier.

Code:

```
import cv2
```

```
import numpy as np
```

```
cap = cv2.VideoCapture('caar.mp4')
```

```
font = cv2.FONT_HERSHEY_TRIPLEX
```

```
harcascade = cv2.CascadeClassifier("cars.xml")
```

```
while True:
```

```
    ret,frames = cap.read()
```

```
    frames = cv2.resize(frames, (800,600))
```

```
    gray = cv2.cvtColor(frames, cv2.COLOR_BGR2GRAY)
```

```
    cars = harcascade.detectMultiScale(gray, 1.1 , 2)
```

```
    for (x,y,w,h) in cars:
```

```
        cv2.rectangle(frames,(x,y),(x+w,y+h),(127,0,255),2)
```

```
        cv2.putText(frames,str("Car"),(x,y+h),font,1,255)
```

```
cv2.imshow('img',frames)
```

```
k = cv2.waitKey(30) & 0xff
```

```
if k == 27:
```

```
    break
```

```
cap.release()
```

```
cv2.destroyAllWindows()
```



```
objdetect.py - C:/Users/keert/OneDrive/Desktop/python/detection/objdetect.py (3.9.6)
File Edit Format Run Options Window Help

import cv2
import numpy as np

cap = cv2.VideoCapture('caar.mp4')
font = cv2.FONT_HERSHEY_TRIPLEX
harcascade = cv2.CascadeClassifier("cars.xml")

while True:
    ret, frames = cap.read()
    frames = cv2.resize(frames, (800, 600))
    gray = cv2.cvtColor(frames, cv2.COLOR_BGR2GRAY)
    cars = harcascade.detectMultiScale(gray, 1.1, 2)

    for (x,y,w,h) in cars:
        cv2.rectangle(frames, (x,y), (x+w,y+h), (127,0,255), 2)
        cv2.putText(frames, str("Car"), (x,y+h), font, 1, 255)

    cv2.imshow('img', frames)

    k = cv2.waitKey(30) & 0xff
    if k == 27:
        break

cap.release()
cv2.destroyAllWindows()
|
```

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