

## Assignment 6

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

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### CODE

```
import cv2

cat_classifier=cv2.CascadeClassifier("haarcascade_frontalcatface_extended.xml")

image=cv2.imread('cat.jpg')

cv2.imshow('Image',image)

cats = cat_classifier.detectMultiScale(image,1.3,5)
print(cats)
for(x,y,w,h) in cats:
    cv2.rectangle(image, (x,y), (x+w,y+h), (127,0,255), 2)
    cv2.imshow('Cat detection', image)
    cv2.putText(image, 'Cat',(x,y-10), cv2.FONT_HERSHEY_SIMPLEX, 0.5,
(255,0,0), 1)

Key=cv2.waitKey(1)
if Key==ord('q'):
    video.release()
    cv2.destroyAllWindows()
    Break
```

**INPUT IMAGE**



**OUTPUT IMAGE**

