

**Machine Learning Internship Session 2**

Face Detection - Coding Sheet

Python is a case sensitive language and proper indentation should be followed while programming

```
import cv2
import numpy as np

face_cascade = cv2.CascadeClassifier('haarcascade_frontalface_default.xml')

cap = cv2.VideoCapture(1)
cap.set(3, 640) # set video width
cap.set(4, 480) # set video height
while (1) :
    ret, img = cap.read()

    gray = cv2.cvtColor(img, cv2.COLOR_BGR2GRAY)
    faces = face_cascade.detectMultiScale(gray, 1.3, 5)

    for (x,y,w,h) in faces:
        cv2.rectangle(img,(x,y),(x+w,y+h),(255,0,0),2)

    cv2.imshow('img',img)
    k=cv2.waitKey(30)
    if k == ord('q'):
        break

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

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