



GATE WAY TO ML

face Recognition system



TODAY'S PRESENTATION

DISCUSSION POINTS

Open CV
Image Processing
Harr classifier





OPEN CV

HARR CLASSIFIER

```
### Har cascade in an image
img = cv2.imread('mutiple.jpg',1)
gray = cv2.cvtColor(img,cv2.COLOR_BGR2GRAY)
face_cascade = cv2.CascadeClassifier('haarcascade_frontalface_default.xml')
eye_cascade = cv2.CascadeClassifier('haarcascade_eye.xml')
faces = face_cascade.detectMultiScale(gray)
for (x, y, w, h) in faces:
    cv2.rectangle(img, (x, y), (x + w, y + h), (255, 0, 0), 2)
    roi_gray = gray[y:y + h, x:x + w]
    roi_color = img[y:y + h, x:x + w]
    eyes = eye_cascade.detectMultiScale(roi_gray)
    for (ex, ey, ew, eh) in eyes:
        cv2.rectangle(roi_color, (ex, ey), (ex + ew, ey + eh), (0, 255, 0), 2)
cv2.imshow('img', img)
cv2.waitKey( )
cv2.destroyAllWindows()
```



THANK YOU

Any Doubts??

NEXT SECTION LIBRARIES IN
PYTHON FOR ML

