

# Module 8

Write a code to track the pedestrian in a video. Use haar cascade pretrained model to achieve the same.

Name: Nithin Dsouza

Batch ID: 05062021-9AM (weekend)

Topic: Computer vision and Image processing

Importing required libraries

import cv2

while cap.isOpened():

## Creating body classifier using haarcascade\_fullbody.xml

body\_classifier = cv2.CascadeClassifier('C:/Users/HP/Desktop/Comp. vis. & image processing/haarcascade\_fullbody.xml')

### Initiate video capture for video file

cap = cv2.VideoCapture('C:/Users/HP/Desktop/Comp. vis. & image processing/walking.avi')

### Looping the video inside a while loop

```
# Read first frame
ret, frame = cap.read()

#converting video into Gray, where as RGB is time consuming
gray = cv2.cvtColor(frame, cv2.COLOR_BGR2GRAY)

# Pass frame to our body classifier
bodies = body_classifier.detectMultiScale(gray, 1.2, 3)
```

### Extract bounding boxes for any bodies identified

```
for (x,y,w,h) in bodies:
    cv2.rectangle(frame, (x, y), (x+w, y+h), (0, 255, 255), 2)
    cv2.imshow('Pedestrians', frame)

if cv2.waitKey(1) == 13:
    break

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