**Module 8**

Write a code to track the pedestrian in a video. Use haar cascade pretrained model to achieve the same. (Consider any pedestrian walking video)

You can download dataset from here : <https://www.videvo.net/video/pedestrians-on-a-walkway/8175/>

**Code:**

import cv2

face\_cascade = cv2.CascadeClassifier('C:/Users/Lenovo/Downloads/Study material/AI/Computer Vision and Image Processing/Data Sets\_SDC/opencv\_config\_files/Day 5/haarcascade\_frontalface\_alt.xml')

cap = cv2.VideoCapture('C:/Users/Lenovo/Downloads/Study material/AI/Computer Vision and Image Processing/Assignment/8175\_pedestrians\_pedestrian\_footbridge\_18030106BCityRoam01720p5000br.mp4')

scaling\_factor = 0.5

while True:

ret, frame = cap.read()

if not ret:

break

frame = cv2.resize(frame, None, fx=scaling\_factor, fy=scaling\_factor, interpolation=cv2.INTER\_AREA)

face\_rects = face\_cascade.detectMultiScale(frame, scaleFactor=1.3, minNeighbors=3)

for (x,y,w,h) in face\_rects:

cv2.rectangle(frame, (x,y), (x+w,y+h), (0,255,0), 3)

cv2.imshow('Face Detector', frame)

c = cv2.waitKey(1)

if c == 27:

break

cap.release()

cv2.destroyAllWindows()