**Problem Statement:**

Rush Estimator for Corporate Cafeteria

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Source code :-

import cv2

import os

cascPath=os.path.dirname(cv2.\_\_file\_\_)+"/data/haarcascade\_frontalface\_default.xml"

faceCascade = cv2.CascadeClassifier(cascPath)

video\_capture = cv2.VideoCapture(0)

while True:

# Capture frame-by-frame

ret, frames = video\_capture.read()

gray = cv2.cvtColor(frames, cv2.COLOR\_BGR2GRAY)

faces = faceCascade.detectMultiScale(

gray,

scaleFactor=1.1,

minNeighbors=5,

minSize=(30, 30),

flags=cv2.CASCADE\_SCALE\_IMAGE

)

# Draw a rectangle around the faces

for (x, y, w, h) in faces:

cv2.rectangle(frames, (x, y), (x+w, y+h), (0, 245, 0), 2)

# Display the resulting frame

cv2.imshow('Video', frames)

if cv2.waitKey(1) & 0xFF == ord('q'):

break

video\_capture.release()

cv2.destroyAllWindows()

DEMO OUTPUT:





