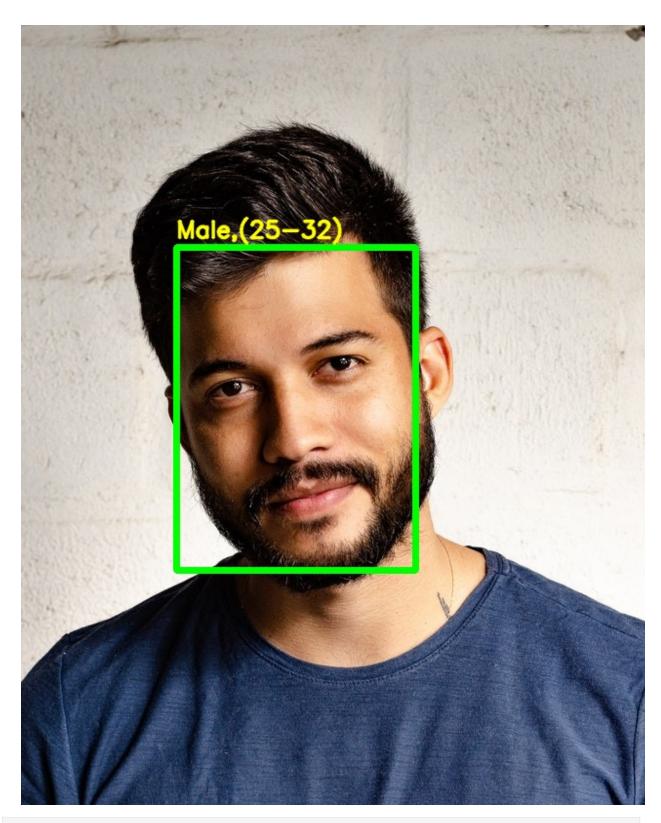
```
!git clone https://github.com/misbah4064/age and gender detection.git
%cd age and gender detection
Cloning into 'age and gender detection'...
remote: Enumerating objects: 11, done.ote: Counting objects: 100%
(2/2), done.ote: Compressing objects: 100% (2/2), done.ote: Total 11
(delta 1), reused 0 (delta 0), pack-reused 9
# Downloading pretrained data and unzipping it
!gdown https://drive.google.com/uc?
id=1 aDScOvBeBLCn iv0oxSO8X1ySQpSbIS
# https://drive.google.com/uc?id=1 aDSc0vBeBLCn iv0oxS08X1ySQpSbIS
!unzip modelNweight.zip
Downloading...
From (original): https://drive.google.com/uc?
id=1_aDSc0vBeBLCn_iv0oxS08X1ySQpSbIS
From (redirected): https://drive.google.com/uc?
id=1 aDScOvBeBLCn iv0oxSO8X1ySQpSbIS&confirm=t&uuid=d2bded08-46b7-
491c-943d-0e691b9a73b4
To: /content/age and gender detection/modelNweight.zip
100% 86.2M/86.2M [00:00<00:00, 133MB/s]
Archive:
         modelNweight.zip
   creating: modelNweight/
  inflating: modelNweight/age deploy.prototxt
  inflating: modelNweight/age net.caffemodel
  inflating: modelNweight/gender deploy.prototxt
  inflating: modelNweight/gender net.caffemodel
  inflating: modelNweight/opencv_face_detector.pbtxt
  inflating: modelNweight/opencv face detector uint8.pb
# Import required modules
import cv2 as cv
import math
import time
from google.colab.patches import cv2 imshow
def getFaceBox(net, frame, conf threshold=0.7):
    frameOpencvDnn = frame.copy()
    frameHeight = frameOpencvDnn.shape[0]
    frameWidth = frameOpencvDnn.shape[1]
    blob = cv.dnn.blobFromImage(frameOpencvDnn, 1.0, (300, 300), [104,
117, 123], True, False)
    net.setInput(blob)
    detections = net.forward()
    bboxes = []
    for i in range(detections.shape[2]):
        confidence = detections[0, 0, i, 2]
        if confidence > conf threshold:
```

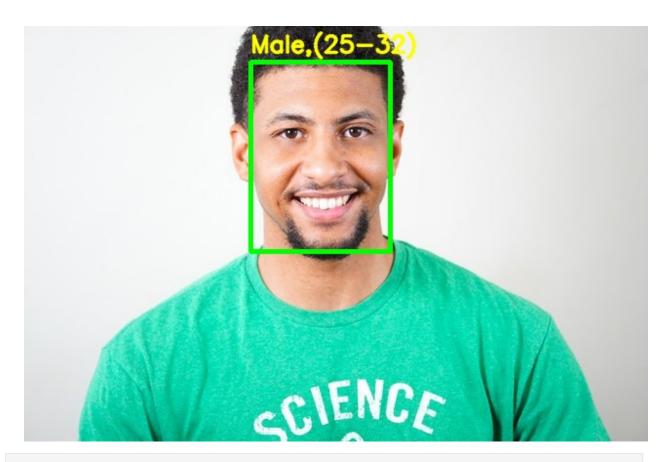
```
x1 = int(detections[0, 0, i, 3] * frameWidth)
            y1 = int(detections[0, 0, i, 4] * frameHeight)
            x2 = int(detections[0, 0, i, 5] * frameWidth)
            y2 = int(detections[0, 0, i, 6] * frameHeight)
            bboxes.append([x1, y1, x2, y2])
            cv.rectangle(frameOpencvDnn, (x1, y1), (x2, y2), (0, 255,
0), int(round(frameHeight/150)), 8)
    return frameOpencvDnn, bboxes
faceProto = "modelNweight/opencv face detector.pbtxt"
faceModel = "modelNweight/opencv face detector uint8.pb"
ageProto = "modelNweight/age deploy.prototxt"
ageModel = "modelNweight/age net.caffemodel"
genderProto = "modelNweight/gender deploy.prototxt"
genderModel = "modelNweight/gender net.caffemodel"
MODEL_MEAN_VALUES = (78.4263377603, 87.7689143744, 114.895847746)
ageList = ['(0-2)', '(4-6)', '(8-12)', '(15-20)', '(25-32)', '(38-12)']
43)', '(48-53)', '(60-100)']
genderList = ['Male', 'Female']
# Load network
ageNet = cv.dnn.readNet(ageModel, ageProto)
genderNet = cv.dnn.readNet(genderModel, genderProto)
faceNet = cv.dnn.readNet(faceModel, faceProto)
padding = 20
def age_gender_detector(frame):
    # Read frame
    t = time.time()
    frameFace, bboxes = getFaceBox(faceNet, frame)
    for bbox in bboxes:
        # print(bbox)
        face = frame[max(0,bbox[1])-
padding):\min(bbox[3]+padding, frame.shape[0]-1), \max(0, bbox[0]-1)
padding):min(bbox[2]+padding, frame.shape[1]-1)]
        blob = cv.dnn.blobFromImage(face, 1.0, (227, 227),
MODEL MEAN VALUES, swapRB=False)
        genderNet.setInput(blob)
        genderPreds = genderNet.forward()
        gender = genderList[genderPreds[0].argmax()]
        ageNet.setInput(blob)
        agePreds = ageNet.forward()
        age = ageList[agePreds[0].argmax()]
        label = "{},{}".format(gender, age)
```

```
cv.putText(frameFace, label, (bbox[0], bbox[1]-10),
cv.FONT_HERSHEY_SIMPLEX, 0.8, (0, 255, 255), 2, cv.LINE_AA)
    return frameFace

input = cv.imread("image.jpg")
output = age_gender_detector(input)
cv2_imshow(output)
```



input = cv.imread("image1.jpg")
output = age_gender_detector(input)
cv2_imshow(output)



input = cv.imread("image2.jpg")
output = age_gender_detector(input)
cv2_imshow(output)

