## r-detection-using-opency-in-python

June 22, 2025

```
[]: import cv2
     import matplotlib.pyplot as plt
[]: # Input image
     image = cv2.imread('image.jpg')
     image = cv2.resize(image, (720, 640))
[]: # Importing Models and set mean values
     face1 = "opencv_face_detector.pbtxt"
     face2 = "opencv_face_detector_uint8.pb"
     age1 = "age_deploy.prototxt"
     age2 = "age_net.caffemodel"
     gen1 = "gender_deploy.prototxt"
     gen2 = "gender_net.caffemodel"
     MODEL_MEAN_VALUES = (78.4263377603, 87.7689143744, 114.895847746)
     # Using models
     # Face
     face = cv2.dnn.readNet(face2, face1)
     # age
     age = cv2.dnn.readNet(age2, age1)
     # gender
     gen = cv2.dnn.readNet(gen2, gen1)
[]: # Categories of distribution
     la = ['(0-2)', '(4-6)', '(8-12)', '(15-20)',
          '(25-32)', '(38-43)', '(48-53)', '(60-100)']
     lg = ['Male', 'Female']
[]: # Copy image
     fr_cv = image.copy()
[]: # Face detection
     fr_h = fr_cv.shape[0]
```

## []: [[216, 87, 449, 304]]

```
#Prediction of gender
gen.setInput(blob)
genderPreds = gen.forward()
gender = lg[genderPreds[0].argmax()]
#Prediction of age
age.setInput(blob)
agePreds = age.forward()
age = la[agePreds[0].argmax()]
#Putting text of age and gender
#At the top of box
cv2.putText(fr_cv,
            f'{gender}, {age}',
            (faceBox[0]-150, faceBox[1]+10),
            cv2.FONT_HERSHEY_SIMPLEX,
            1.3,
            (217, 0, 0),
            4,
            cv2.LINE_AA)
plt.figure(figsize=(7, 7))
plt.imshow(fr_cv)
```

