ASSIGNMENT-6

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Python code:

assignment6.py - C:\Users\nihit\Downloads\assignment6.py (3.9.6)

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```
import cv2
import datetime

face_classifier = cv2.CascadeClassifier("haarcascade_frontalface_default.xml")
eye_classifier = cv2.CascadeClassifier("haarcascade_eye.xml")


img=cv2.imread("Viratkohli.jpg")
grcp = cv2.cvtColor(img, cv2.COLOR_BGR2GRAY)

faces = face_classifier.detectMultiScale(grcp,1.3,5)
eyes = eye_classifier.detectMultiScale(grcp,1.3,5)

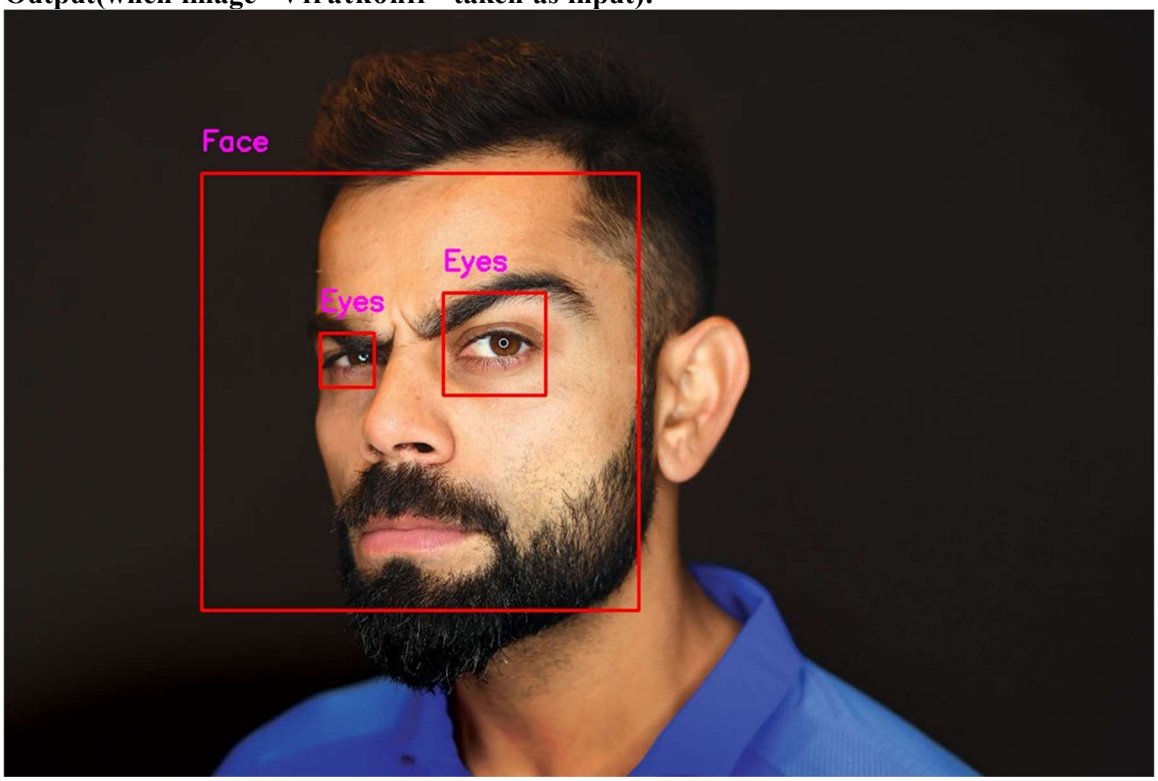

for(fa1,fa2,fa3,fa4) in faces:
    cv2.rectangle(img, (fa1,fa2), (fa1+fa3,fa2+fa4), (0,0,255), 2)
    cv2.putText(img, 'Face', (fa1,fa2-20), cv2.FONT_HERSHEY_SIMPLEX, 0.8, (255,0,255), 2)

for(e1,e2,e3,e4) in eyes:
    cv2.rectangle(img, (e1,e2), (e1+e3,e2+e4), (0,0,255), 2)
    cv2.putText(img, 'Eyes', (e1,e2-20), cv2.FONT_HERSHEY_SIMPLEX, 0.8, (255,0,255), 2)


cv2.imshow('image', img)
picname=datetime.datetime.now().strftime("%y-%m-%d-%H-%M")
cv2.imwrite(picname+".jpg",img)
```

Ln: 27 Col: 0

Output(when image" Viratkohli" taken as input):



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face_classifier = cv2.CascadeClassifier("haarcascade_frontalface_default.xml")
eye_classifier = cv2.CascadeClassifier("haarcascade_eye.xml")


img=cv2.imread("messi.jpg")
grcp = cv2.cvtColor(img, cv2.COLOR_BGR2GRAY)

faces = face_classifier.detectMultiScale(grcp,1.3,5)
eyes = eye_classifier.detectMultiScale(grcp,1.3,5)


for(fa1,fa2,fa3,fa4) in faces:
    cv2.rectangle(img, (fa1,fa2), (fa1+fa3,fa2+fa4), (0,0,255), 2)
    cv2.putText(img, 'Face', (fa1,fa2-20), cv2.FONT_HERSHEY_SIMPLEX, 0.8, (255,0,255), 2)

for(e1,e2,e3,e4) in eyes:
    cv2.rectangle(img, (e1,e2), (e1+e3,e2+e4), (0,0,255), 2)
    cv2.putText(img, 'Eyes', (e1,e2-20), cv2.FONT_HERSHEY_SIMPLEX, 0.8, (255,0,255), 2)


cv2.imshow('image', img)
picname=datetime.datetime.now().strftime("%y-%m-%d-%H-%M")
cv2.imwrite(picname+".jpg",img)
```

Ln: 27 Col: 0

Output(when image" messi" taken as input):