1 import cv2

import os

```
# Provide the correct local path to the XML
                           xml_path = r'C:\Users\rkssp\Desktop\TEF0logic PROJECTS\face blur\haarcascade_frontalface_default.xml'
                                                                                                                                                                                                          haarcascade_frontalface_default.xml file. Check the path.")
                                                                                                                                                                                                                                                             = faceCascade.detectMultiScale(img, scaleFactor=1.1, minNeighbors=4, minSize=(30, 30))
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 scaled_face = cv2.resize(FaceImg, (w * scale_factor, h * scale_factor))
                                                                                                                                                                                                                                                                                                             15 directory = os.path.join(os.getcwd(), 'Extract Faces From Image', 'Faces')
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         # Adjust the scale factor based on your preference
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Resolution", scaled_face)
 = r"C:\Users\rkssp\Desktop\bharathi.jpg"
                                                                                                                              faceCascade = cv2.CascadeClassifier(xml_path)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        ey press
                                                                                                                                                                                                                                                                                                                                                                                          os.makedirs(directory, exist_ok=True)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         cv2.imwrite(filename, scaled_face)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               f'Face_{i}_HighRes.jpg'
                                                                                                                                                                                                                                                                                                                                                                                                                                             fee)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   cv2.waitKey(0) # Wait for a K
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       # Save the scaled face on disk
                                                                                                                                                                                                          raise IOError("Error Loading
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          +
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         cv2.imshow(f"Face {i} - High
                                                                                                                                                                                                                                                                                                                                                                                                                                            print('Exception Occurred:',
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   FaceImg = img[y:y + h, x:x
                                                                                                                                                                                                                                                                                                                                                                                                                  19 except FileExistsError as fee:
20 print('Exception Occurred:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               # Display the scaled face
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    27 for (x, y, w, h) in faces:
28 FaceImg = img[y:y + h, x
29 # Scale up the face
31 scaled_face = cv2.resize
32 # Display the scaled fac
34 cv2.imshow(f"Face {i} -
35 cv2.waitKey(0) # Wait f
                                                                                                      img = cv2.imread(img_path)
                                                                                                                                                       10 if faceCascade.empty():
11
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    cv2.destroyAllWindows()
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              os.chdir(directory)
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             П
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             24 i = 1
25 scale_factor =
26
4 img_path =
5 xml_path =
                                                                                                                                                                                                                                                              faces
                                                                                                                                                                                                                                                                                                                                                                17 try:
                                                                                                                                \infty
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