```
In [ ]: import cv2
         import matplotlib.pyplot as plt
         import os
 In [ ]: # Path to your image
         image path = r'C:\Users\mdmaz\Downloads\Rohit Sharma.jpg'
         output path = r'C:\Users\mdmaz\Downloads\Rohit Sharma detected.jpg'
 In [ ]: #Load the pre-trained face detector from OpenCV
         face_cascade = cv2.CascadeClassifier(cv2.data.haarcascades + 'haarcascade_frontalface_default.xml')
 In [ ]: # Read the image
         image = cv2.imread(image_path)
         if image is None:
             raise ValueError("Failed to load image. Please check the file format and path.")
 In [ ]: # Convert image to grayscale (face detection works better)
         gray = cv2.cvtColor(image, cv2.COLOR BGR2GRAY)
 In [ ]: # Load your image using the full path (use double backslashes or raw string to avoid errors)
         image = cv2.imread(r'C:\Users\mdmaz\Downloads\Rohit_Sharma.jpg')
 In [ ]: # Convert the image to grayscale for face detection
         gray = cv2.cvtColor(image, cv2.COLOR BGR2GRAY)
 In [ ]: #Detect faces in the image
         faces = face cascade.detectMultiScale(gray)
 In []: # Draw rectangles around detected faces
         for (x, y, w, h) in faces:
            cv2.rectangle(image, (x, y), (x + w, y + h), (0, 255, 0), 2)
In [10]: # Convert BGR to RGB for displaying with matplotlib
         image rgb = cv2.cvtColor(image, cv2.COLOR BGR2RGB)
 In [ ]: # Display the image with detected faces
         cv2.imshow('Faces detected', image)
         cv2.waitKey(0)
         cv2.destroyAllWindows()
 In [ ]: # Display results with matplotlib
         plt.figure(figsize=(10, 8))
         plt.imshow(image_rgb)
         plt.axis('off')
         plt.title(f"Detected {len(faces)} face(s) in the image")
         plt.show()
 In [ ]:
 In [ ]:
 In [ ]:
```

Loading [MathJax]/jax/output/CommonHTML/fonts/TeX/fontdata.js