```
→ Collecting ultralytics
      Downloading ultralytics-8.3.18-py3-none-any.whl.metadata (34 kB)
    Requirement already satisfied: numpy>=1.23.0 in /usr/local/lib/python3.10/dist-packages (from ultralytics) (1.26.4)
    Requirement already satisfied: matplotlib>=3.3.0 in /usr/local/lib/python3.10/dist-packages (from ultralytics) (3.7.1)
    Requirement already satisfied: opencv-python>=4.6.0 in /usr/local/lib/python3.10/dist-packages (from ultralytics) (4.10.0.84)
    Requirement already satisfied: pillow>=7.1.2 in /usr/local/lib/python3.10/dist-packages (from ultralytics) (10.4.0)
    Requirement already satisfied: pyyaml>=5.3.1 in /usr/local/lib/python3.10/dist-packages (from ultralytics) (6.0.2)
    Requirement already satisfied: requests>=2.23.0 in /usr/local/lib/python3.10/dist-packages (from ultralytics) (2.32.3)
    Requirement already satisfied: scipy>=1.4.1 in /usr/local/lib/python3.10/dist-packages (from ultralytics) (1.13.1)
    Requirement already satisfied: torch>=1.8.0 in /usr/local/lib/python3.10/dist-packages (from ultralytics) (2.4.1+cu121)
    Requirement already satisfied: torchvision>=0.9.0 in /usr/local/lib/python3.10/dist-packages (from ultralytics) (0.19.1+cu121)
    Requirement already satisfied: tqdm>=4.64.0 in /usr/local/lib/python3.10/dist-packages (from ultralytics) (4.66.5)
    Requirement already satisfied: psutil in /usr/local/lib/python3.10/dist-packages (from ultralytics) (5.9.5)
    Requirement already satisfied: py-cpuinfo in /usr/local/lib/python3.10/dist-packages (from ultralytics) (9.0.0)
    Requirement already satisfied: pandas>=1.1.4 in /usr/local/lib/python3.10/dist-packages (from ultralytics) (2.2.2)
    Requirement already satisfied: seaborn>=0.11.0 in /usr/local/lib/python3.10/dist-packages (from ultralytics) (0.13.2)
    Collecting ultralytics-thop>=2.0.0 (from ultralytics)
      Downloading ultralytics thop-2.0.9-py3-none-any.whl.metadata (9.3 kB)
    Requirement already satisfied: contourpy>=1.0.1 in /usr/local/lib/python3.10/dist-packages (from matplotlib>=3.3.0->ultralytics) (1.3.0)
    Requirement already satisfied: cycler>=0.10 in /usr/local/lib/python3.10/dist-packages (from matplotlib>=3.3.0->ultralytics) (0.12.1)
    Requirement already satisfied: fonttools>=4.22.0 in /usr/local/lib/python3.10/dist-packages (from matplotlib>=3.3.0->ultralytics) (4.54.1)
    Requirement already satisfied: kiwisolver>=1.0.1 in /usr/local/lib/python3.10/dist-packages (from matplotlib>=3.3.0->ultralytics) (1.4.7)
    Requirement already satisfied: packaging>=20.0 in /usr/local/lib/python3.10/dist-packages (from matplotlib>=3.3.0->ultralytics) (24.1)
    Requirement already satisfied: pyparsing>=2.3.1 in /usr/local/lib/python3.10/dist-packages (from matplotlib>=3.3.0->ultralytics) (3.2.0)
    Requirement already satisfied: python-dateutil>=2.7 in /usr/local/lib/python3.10/dist-packages (from matplotlib>=3.3.0->ultralytics) (2.8.2)
    Requirement already satisfied: pytz>=2020.1 in /usr/local/lib/python3.10/dist-packages (from pandas>=1.1.4->ultralytics) (2024.2)
    Requirement already satisfied: tzdata>=2022.7 in /usr/local/lib/python3.10/dist-packages (from pandas>=1.1.4->ultralytics) (2024.2)
    Requirement already satisfied: charset-normalizer<4,>=2 in /usr/local/lib/python3.10/dist-packages (from requests>=2.23.0->ultralytics) (3.4.0
    Requirement already satisfied: idna<4,>=2.5 in /usr/local/lib/python3.10/dist-packages (from requests>=2.23.0->ultralytics) (3.10)
    Requirement already satisfied: urllib3<3,>=1.21.1 in /usr/local/lib/python3.10/dist-packages (from requests>=2.23.0->ultralytics) (2.2.3)
    Requirement already satisfied: certifi>=2017.4.17 in /usr/local/lib/python3.10/dist-packages (from requests>=2.23.0->ultralytics) (2024.8.30)
    Requirement already satisfied: filelock in /usr/local/lib/python3.10/dist-packages (from torch>=1.8.0->ultralytics) (3.16.1)
    Requirement already satisfied: typing-extensions>=4.8.0 in /usr/local/lib/python3.10/dist-packages (from torch>=1.8.0->ultralytics) (4.12.2)
    Requirement already satisfied: sympy in /usr/local/lib/python3.10/dist-packages (from torch>=1.8.0->ultralytics) (1.13.3)
    Requirement already satisfied: networkx in /usr/local/lib/python3.10/dist-packages (from torch>=1.8.0->ultralytics) (3.4.1)
    Requirement already satisfied: jinja2 in /usr/local/lib/python3.10/dist-packages (from torch>=1.8.0->ultralytics) (3.1.4)
    Requirement already satisfied: fsspec in /usr/local/lib/python3.10/dist-packages (from torch>=1.8.0->ultralytics) (2024.6.1)
    Requirement already satisfied: six>=1.5 in /usr/local/lib/python3.10/dist-packages (from python-dateutil>=2.7->matplotlib>=3.3.0->ultralytics)
    Requirement already satisfied: MarkupSafe>=2.0 in /usr/local/lib/python3.10/dist-packages (from jinja2->torch>=1.8.0->ultralvtics) (3.0.1)
    Requirement already satisfied: mpmath<1.4,>=1.1.0 in /usr/local/lib/python3.10/dist-packages (from sympy->torch>=1.8.0->ultralytics) (1.3.0)
    Downloading ultralytics-8.3.18-py3-none-any.whl (876 kB)
                                               - 876.6/876.6 kB 29.7 MB/s eta 0:00:00
    Downloading ultralytics_thop-2.0.9-py3-none-any.whl (26 kB)
    Installing collected packages: ultralytics-thop, ultralytics
    Successfully installed ultralytics-8.3.18 ultralytics-thop-2.0.9
from ultralytics import YOLO
import cv2
import matplotlib.pyplot as plt
import os
🚁 Creating new Ultralytics Settings v0.0.6 file 🔽
    View Ultralytics Settings with 'yolo settings' or at '/root/.config/Ultralytics/settings.json'
    Update Settings with 'yolo settings key=value', i.e. 'yolo settings runs_dir=path/to/dir'. For help see <a href="https://docs.ultralytics.com/quickstar">https://docs.ultralytics.com/quickstar</a>
# Loading the YOLOv8 model for facial detection (this should be trained on facial datasets like WiderFace)
model = YOLO('/content/drive/MyDrive/yolov8n_100e.pt')
# User input for the dataset folder and the specific image
dataset_path = input("Enter the path to your dataset folder: ")
image_name = input("Enter the name of the image file (with extension, e.g., 'image1.jpg'): ")
Enter the path to your dataset folder: /content/drive/MyDrive/drowsiness dataset/Active
    Enter the name of the image file (with extension, e.g., 'image1.jpg'): /content/drive/MyDrive/drowsiness dataset/Active/image_0176.jpg
# Constructing the full image path
image_path = os.path.join(dataset_path, image_name)
# Checking if the image exists
if not os.path.exists(image_path):
   print(f"Error: The image '{image_name}' was not found in the dataset path '{dataset_path}'.")
else:
   # Loading the image from the specified file path
   image = cv2.imread(image_path)
   # Running facial detection on the image
   results = model(image)
   # Visualizing the detection results on the image (faces will be highlighted with bounding boxes)
   annotated_image = results[0].plot()
   # Displaying the image with detected faces
```

```
plt.imshow(cv2.cvtColor(annotated_image, cv2.COLOR_BGR2RGB))
plt.axis('off')
plt.show()
```

 $\overrightarrow{\Rightarrow}$ 

0: 448x640 1 Face, 161.5ms

Speed: 6.1ms preprocess, 161.5ms inference, 1.0ms postprocess per image at shape (1, 3, 448, 640)

