SAMPEL CODE

SETUP

```
%pip install ultralytics
import ultralytics
ultralytics.checks()
```

```
import os
from IPython.display import display, Image
from IPython import display
display.clear_output()
```

Select YOLOv8 🚀 logger

```
#@title Select YOLOv8 🚀 logger {run: 'auto'}
logger = 'Comet' #@param ['Comet', 'TensorBoard']

if logger == 'Comet':
  %pip install -q comet_ml
  import comet_ml; comet_ml.init()
elif logger == 'TensorBoard':
  %load_ext tensorboard
  %tensorboard --logdir .
```

DETECTION

```
# Train YOLOv8n on COCO128 for 100 epochs
!yolo train model=yolov8n.pt data=coco128.yaml epochs=100 imgsz=640
!yolo val model=yolov8n.pt data=coco128.yaml
!yolo predict model=yolov8n.pt source='https://i.natgeofe.com/k/e856e727-736f-4f66-a9c2-8c8fa9050794/netherlands-bicycles-amsterdam.jpg'
Image(filename=f'/content/runs/detect/predict/netherlands-bicycles-amsterdam.jpg', width=600)
```

SEGMENTATION

```
# Train YOLOv8n on COCO128 for 100 epochs
!yolo train model=yolov8n-seg.pt data=coco128.yaml epochs=100 imgsz=640
!yolo val model=yolov8n-seg.pt data=coco128.yaml
!yolo predict model=yolov8n-seg.pt source='/content/netherlands-bicycles-amsterdam.jpg'
Image(filename=f'/content/runs/segment/predict/netherlands-bicycles-amsterdam.jpg', width=600)
```

RT-DETR

```
# Train YOLOv8n on COCO128 for 100 epochs
!yolo train model=rtdetr-l.pt data=coco128.yaml epochs=100 imgsz=640
!yolo val model=rtdetr-l.pt data=coco128.yaml
!yolo predict model=rtdetr-l.pt source='/content/netherlands-bicycles-amsterdam.jpg'
Image(filename=f'/content/runs/detect/predict2/netherlands-bicycles-amsterdam.jpg',
width=600)
```