Object Detection Using YOLOv8

**Objective**: The objective of this homework assignment is to explore object detection and the data gathering process. You will implement an object detection Yolov8 model, and train it on a subset of the dataset of your choice. The assignment will cover data preprocessing, model fine-tuning, and evaluation.

YOLOv8 models are fast, accurate, and easy to use, making them ideal for various object detection and image segmentation tasks. They can be trained on large datasets and run on diverse hardware platforms, from CPUs to GPUs.

**Task**: your task is to choose a custom dataset for Yolo8 fine-tuning (you can find one on HuggingFace).

**Baseline**: [CV\_Intro\_HW1](https://colab.research.google.com/drive/1pLX-At4v66ycCKDIZsWT63xpixsUPLBf?usp=sharing)

You can use GroundingDINO for object annotation.

**Points**: 3 points - a custom dataset is uploaded

3 points - YOLOv8 is fine-tuned

3 points - results are visualized

**Deadline**: 20.09 18:00