Project summary

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**Course: Exchange student- Computer Science**

Number of classes: 12

Number of images clicked: 591 ([link to dataset](https://nextcloud.hof-university.de/s/ndbtDGJBQYqygyL))

Images after augmentation: 1413

Annotations: Roboflow

Data augmentation and data preprocessing: Roboflow

Train/val/test: 87/8/4 %

Implementation: Google colab

Model: YOLOv8m.pt

Imports: Ultralytics, IPython, YOLO, Roboflow

How to train: using Yolo command interface in train mode

Epochs:35

Batch:70

Precision: 97.7%

Recall: 98%

mAP:98.8%

How to use: using predict mode in Yolo command interface for images, videos and webcam with best model weights (best.pt)

Confidence level:0.25

Export: onnx format