Model training conversion

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- 1. Model training
- 2. Model conversion

References

After completing the tutorial content of dataset annotation, we can use the motherboard to start training the model.

This tutorial only introduces the model training and conversion of CLI. You can refer to the official website to modify the Python case

1. Model training

Use CLI command to train the model directly: copy the yolo11n.pt file to the directory where the configuration file is located, and then open the terminal in the directory where the configuration file is located:

cd /home/jetson/ultralytics/ultralytics/data/yahboom_data/orange_data

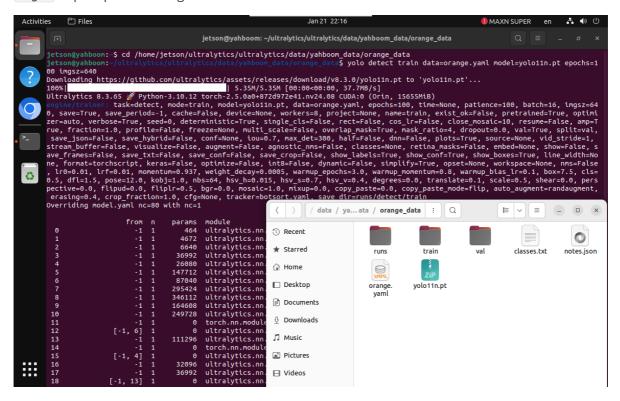
yolo detect train data=orange.yaml model=yolo11n.pt epochs=100 imgsz=640

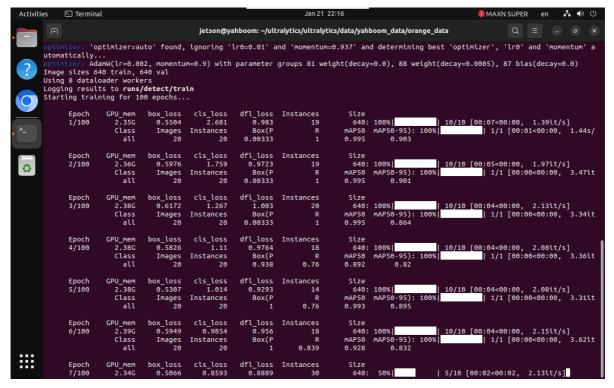
data: Dataset configuration file

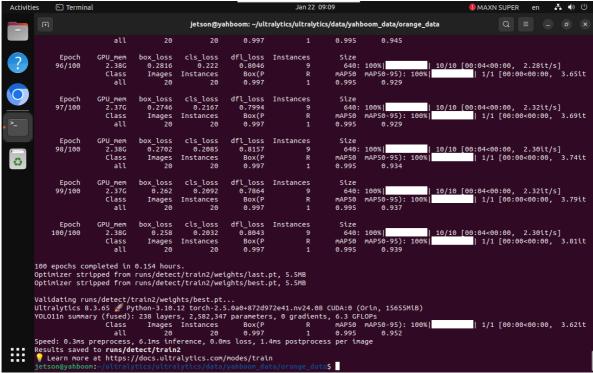
mode1: Pre-trained model file

epochs: Number of training rounds

imgsz: Input specified image size







2. Model conversion

The final model will be generated in the runs folder: generally select the best.pt file for use

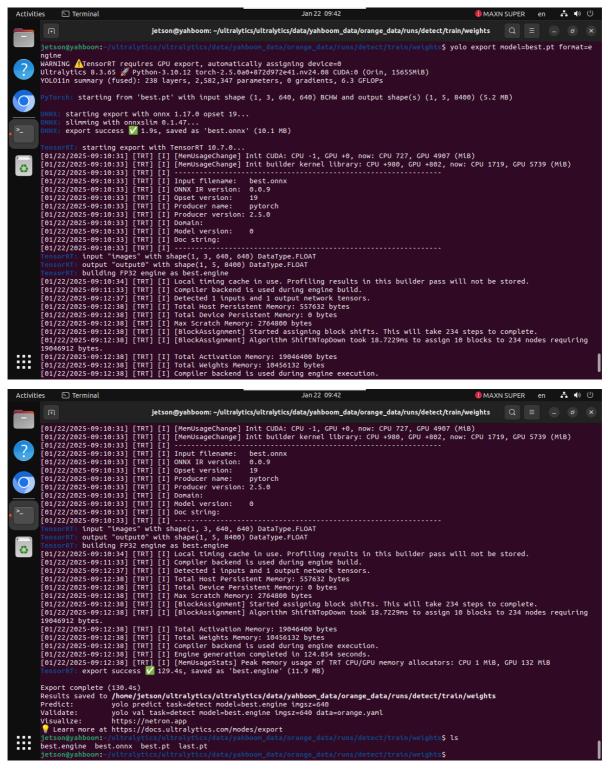
/home/jetson/ultralytics/ultralytics/data/yahboom_data/orange_data/runs/detect/train/weights

Convert the PyTorch format model to TensorRT:

 cd

/home/jetson/ultralytics/ultralytics/data/yahboom_data/orange_data/runs/detect/train/weights

yolo export model=best.pt format=engine



References