Topic 2 - Face Detection

Group 57

Jun 27, 2024

YOLOv10-L Model Performance

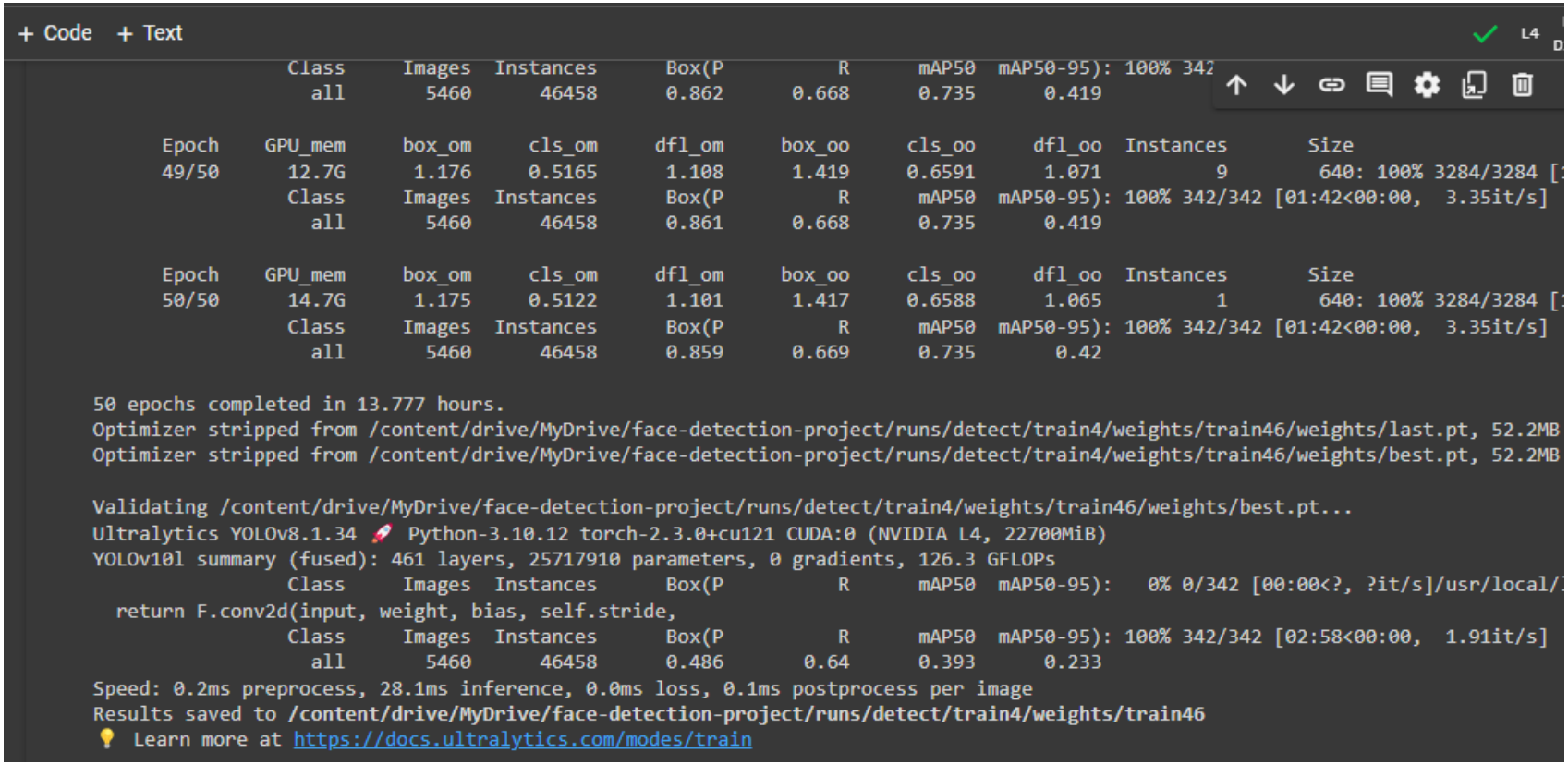

Figure 1: Train model

YOLOv10-L Model Performance

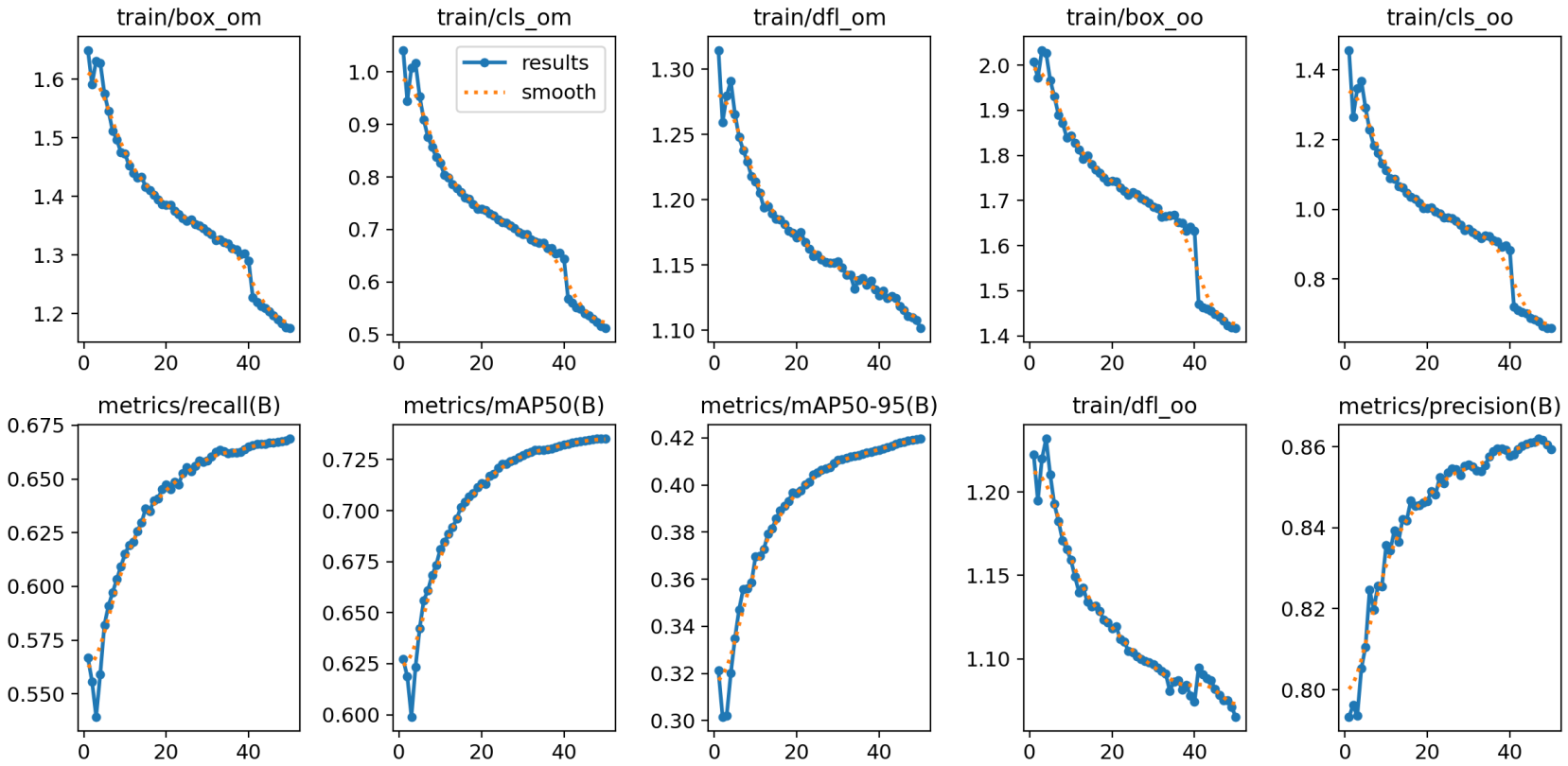

Figure 2: Train model result

Comparison with Other Models

- **Accuracy and Speed**:
  - Our model showed competitive precision and recall rates compared to other leading models.
  - The average precision (mAP@0.5) was 73.5%, while the mAP@0.5:0.95 reached 41.9%.
  - The inference speed was efficient, making our model suitable for real-time applications.
- **Resource Utilization**:
  - The model demonstrated efficient GPU memory usage, with a peak of 17.2G during training.
  - The combination of precision, speed, and resource efficiency highlights the robustness of our model for face detection tasks.