

Object Detection

Report B : Depi Project week 2 Progression

Team 3



What Was Done

| Member | Description | Status |
|-------------------|--|--------|
| Rami Al-Rafe'ie ▾ | Trained: Trained the Yolo model. | Done ▾ |
| Mohamed Hany ▾ | Transformed: python script to transform the xml label format to the yml format for the yolo model | Done ▾ |

Transform:

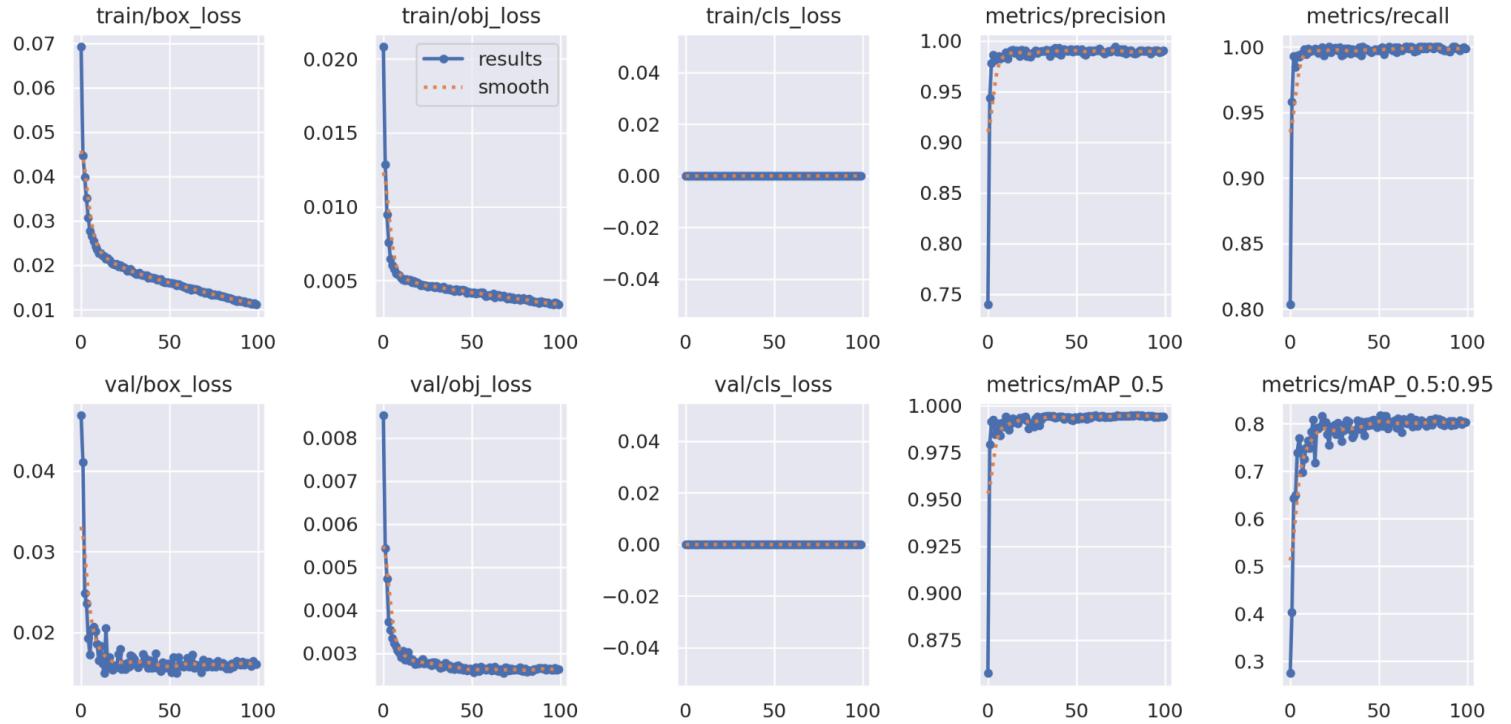
Transformed the xml labeling of the dataset to the yml format for the yolo model.

The YOLO model:

Trained the YOLO model to detect the Egyptian number plate.

[Link to the Kaggle Notebook](#)

Model Visualization



Important Notes:

- There is still a margin for improvement if we increase the number of epochs as we can see with the train/obj_loss, the curve is still decreasing and not saturated yet.
- The most important thing is the Box_losses curves as it's crucial to get only the number plate without any noise (ie. drivers put words and figures around the number plate which is considered noise)
- For the cls_losses it's zero because there is only one class and all the dataset consists only of that class.

