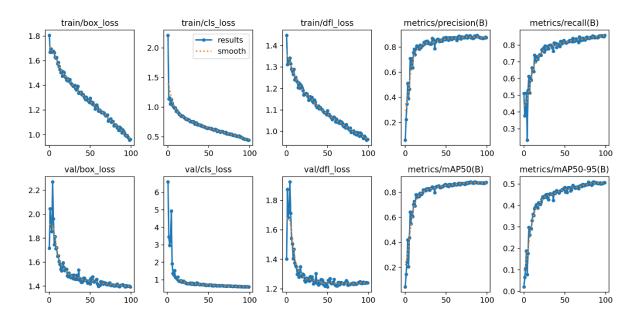
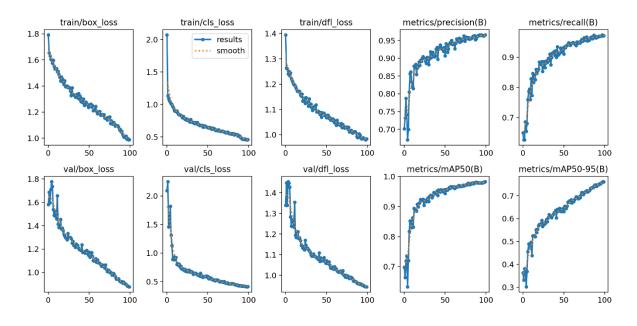
## **Swimmer Detection**

# 허재호

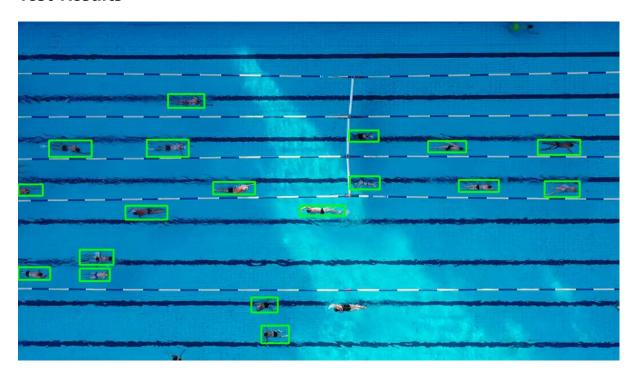
## **Train Data Results**



# Train + Val Data results



### **Test Results**



#### Coco to YOLO Code

```
def convert_coco_to_yolo(coco_json_file, org_images_folder, images_folder, labels_folder):
with open(coco_json_file, 'r', encoding='utf-8') as f:
   data = json.load(f)
images = data['images']
annots = data['annotations']
for image in images :
   org_file_name = image['file_name']
    file_name = org_file_name.split('.jpg')[0]
    id = image['id']
   width, height = image['width'], image['height']
    for annot in annots:
        if annot['image_id'] == id :
            category_id = annot['category_id']
            if category_id not in [0,1,7]:
               x, y, w, h = annot['bbox']
               x_center = (x + w / 2) / width
               y_center = (y + h / 2) / height
                w /= width
                h /= height
                image_org_path = os.path.join(org_images_folder, org_file_name)
                image_dst_path = os.path.join(images_folder, org_file_name)
                copy(image_org_path, image_dst_path)
                yolo_ann = f"0 {x_center:.6f} {y_center:.6f} {w:.6f} {h:.6f}\n"
                txt_file_path = os.path.join(labels_folder, f"{file_name}.txt")
                with open(txt_file_path, 'a') as f:
                    f.write(yolo_ann)
```