

# model

January 13, 2024

```
[ ]: import os  
HOME = os.getcwd()
```

Importing Ultralytics for Yolo Model management

```
[ ]: import ultralytics  
ultralytics.checks()
```

Import YOLO Model

```
[ ]: from ultralytics import YOLO
```

Selecting model size and version

```
[ ]: model = YOLO('yolov8l.yaml')
```

Training model or Load already trained model

```
[ ]: results = model.train(data=f'{HOME}/receipt_extraction_model.v2i.yolov8/data.  
    ↳yaml',  
                           epochs=10,  
                           imgsz=640)  
# result = YOLO("runs/detect/train/weights/best.pt")
```

Validate Model to verify training

```
[ ]: model.val()
```

Test model with unseen data

```
[ ]: results = model.predict(f'{HOME}/receipt_extraction_model.v2i.yolov8/train/  
    ↳images/2f5f0f8c-IMG_20231221_163236_jpg.rf.98422ef6fe3ac4ad7d9de7f164bcd00.  
    ↳jpg",  
                             save=True,  
                             conf=0.005,  
                             save_txt=True,)
```

Extract box coordinate from prediction

```
[ ]: for result in results:  
    boxes = result.boxes.cpu().numpy()
```