

L-15 Implement a YOLO model to detect object

AIM: To implement a YOLO model to detect object

Objectives

To study how YOLO detect multiple objects in a single image

To understand the architecture and working of a pre-trained YOLO model

To use transfer learning for custom object detection

Pseudocode

Install and import (YOLO package)

Load a pre-trained YOLO model

Load a test image or use a camera frame

Run the model.predict() method to detect objects

Display bounding boxes and class labels

Save the annotated output-image

Observation

The pre-trained YOLO v8 model successfully detected multiple objects such as cars, buses, person in singl frame

Each object was enclosed in a bounding box with a class label confidence score

The inference time for image was very low

The model demonstrated strong generalization without additional training

The visualization clearly showed VOLO's ability to detect overlapping objects in complex scenes.

Result.

successfully implemented the VOLO module
89%