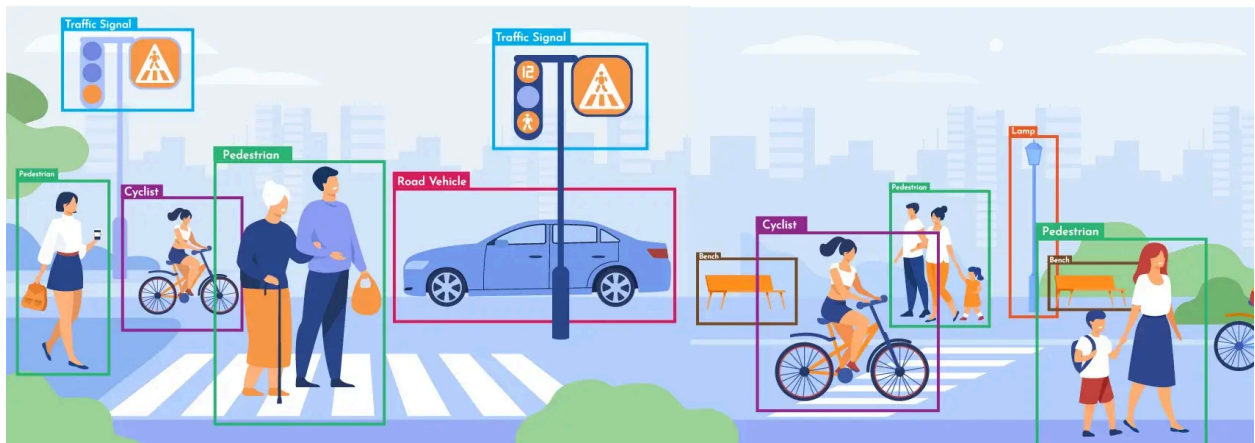


# INFRAPLUS AI WORKSHOP 2024

Welcome to the INFRAPLUS AI Workshop 2024, where participants will delve into the intricacies of **object detection and instance segmentation** using cutting-edge techniques in artificial intelligence.

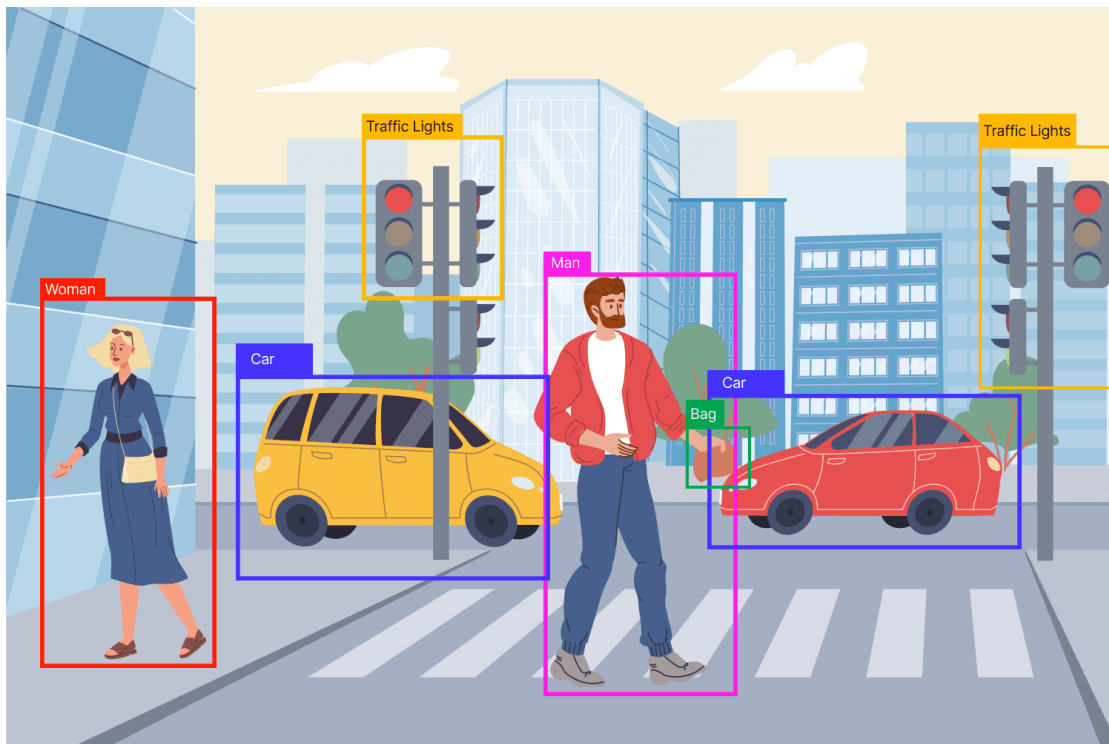
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## Object Detection:



- ☐ Importing Dataset:
  - ☐ Participants will learn the essential steps in acquiring and preparing datasets for object detection tasks.
- ☐ Setting Model Parameters:

- ☐ This session will guide attendees through the process of configuring model parameters for optimal performance in object detection.
- ☐ Training the Model:
  - ☐ Learn how to train a model effectively, understanding the nuances of object detection training to achieve accurate results.
- ☐ Fine-Tuning:
  - ☐ Explore the techniques and best practices for fine-tuning a pre-trained model to suit specific object detection requirements.
- ☐ Evaluating Model:
  - ☐ Understand the metrics and methods used to evaluate the performance of an object detection model, ensuring robust and reliable results.
- ☐ Inference:
  - ☐ Participants will gain insights into deploying and using the trained model for real-world inference tasks.
- ☐ Plotting Performance Graphs:
  - ☐ Learn how to visually represent and analyze the performance of the object detection model through graph plotting techniques.



## Instance Segmentation:

- ☐ Importing Dataset:
  - ☐ Similar to object detection, participants will understand the crucial steps in importing and preparing datasets tailored for instance segmentation.
- ☐ Setting Model Parameters:
  - ☐ Dive into setting parameters specific to instance segmentation models for optimal segmentation results.
- ☐ Training the Model:
  - ☐ Gain hands-on experience in training instance segmentation models, ensuring a comprehensive understanding of the training process.
- ☐ Fine-Tuning:
  - ☐ Explore techniques for fine-tuning instance segmentation models to achieve refined and accurate segmentation results.
- ☐ Evaluating Model:
  - ☐ Learn how to assess the performance of an instance segmentation model using relevant metrics.
- ☐ Inference:
  - ☐ Understand the steps involved in deploying and using the trained instance segmentation model for practical applications.
- ☐ Plotting Performance Graphs:
  - ☐ Participants will be equipped with the skills to visually analyze and interpret the performance of instance segmentation models through graph plotting methods.

