# Tackling Illegal Parking & Finding Parking Spaces

Leveraging YOLOv8 for Urban Mobility Solutions

O1 Problem Statement

O2 Technical Overview

Agenda

O3 Live Demo

## Illegal Parking and Assist in Finding Parking Spaces

#### **Illegal Parking**

• Traffic Disruptions: Illegal parking blocks lanes, causing traffic congestion and delays

- Safety Hazards: Illegally parked vehicles block visibility, causing accidents and unsafe conditions
- Economic Costs: Illegal parking results in fines and towing expenses

#### Finding

**Parking** 

• Time Wastage: Drivers waste time searching for parking

#### Spaces

• Environmental Impact: Searching for parking increases fuel use & pollution

## Objectives and Solution Overview



#### **Reduce Illegal Parking**

Implement a computer vision system to detect and monitor illegal parking in real-time



#### **Enhance Parking Utilization**

Identify available parking spaces and provide real-time information to drivers



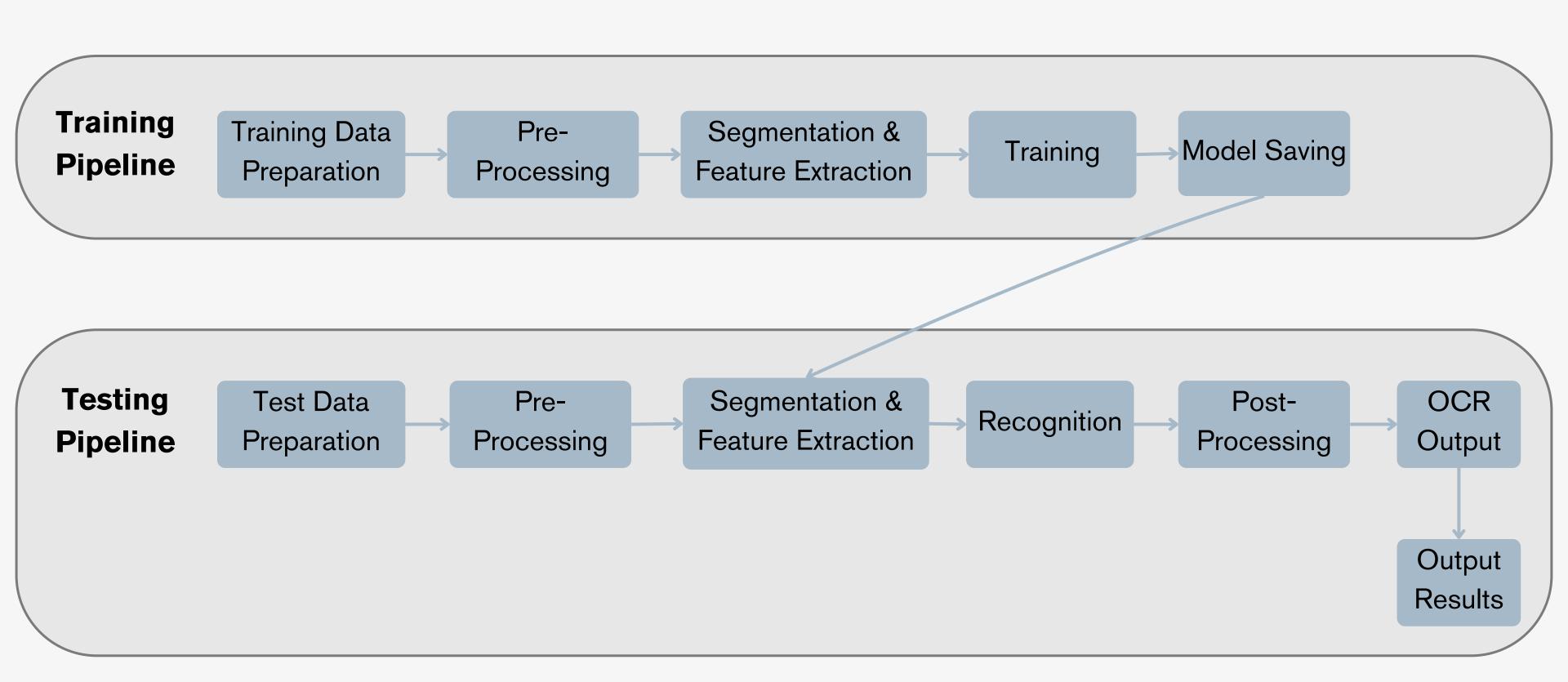
#### **Improve Urban Mobility**

Decrease traffic congestion and emissions by streamlining the parking process

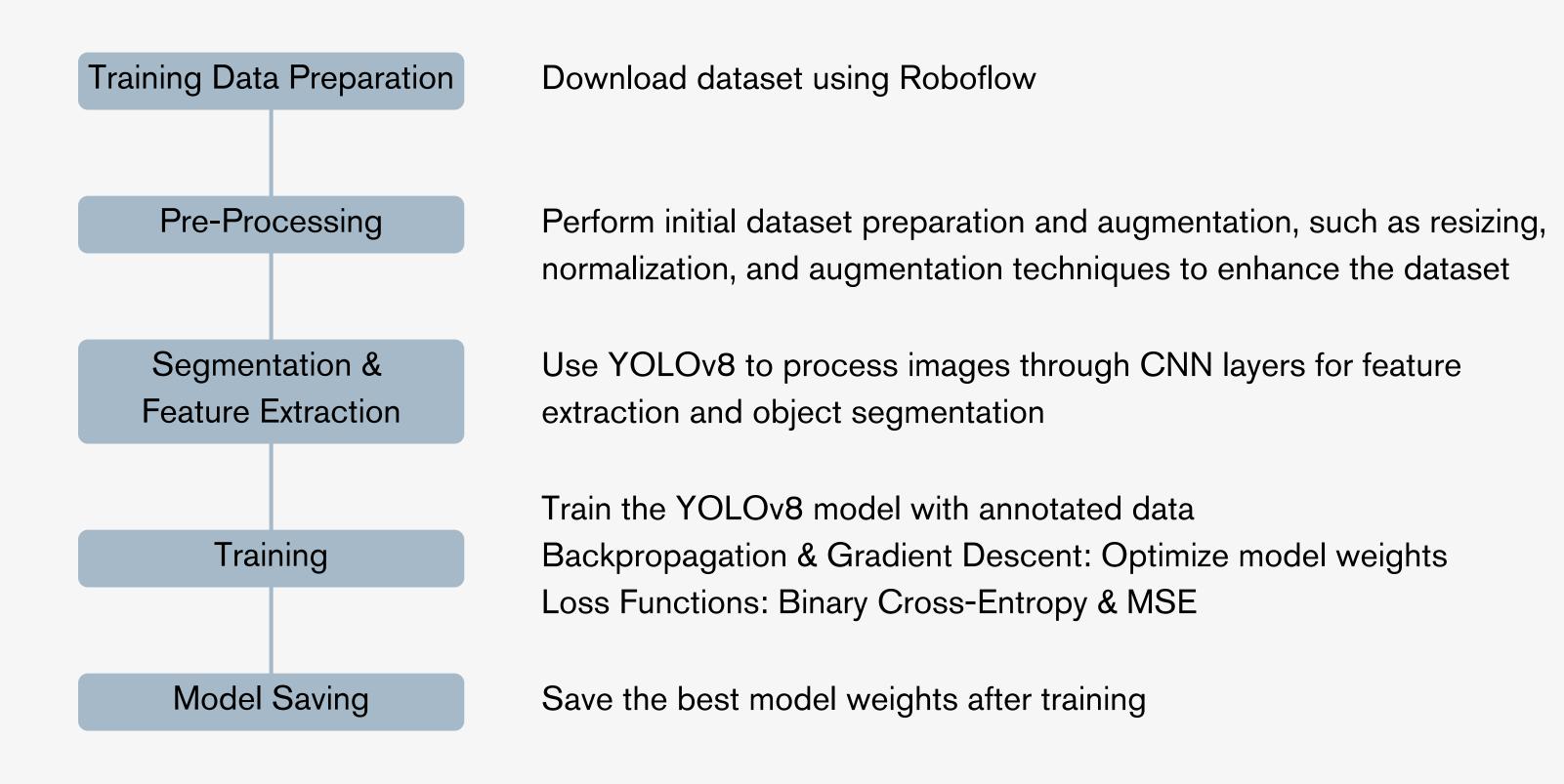
## Revolutionizing Urban Mobility

End-to-End Process for Training and Deploying YOLOv8 Model with Roboflow

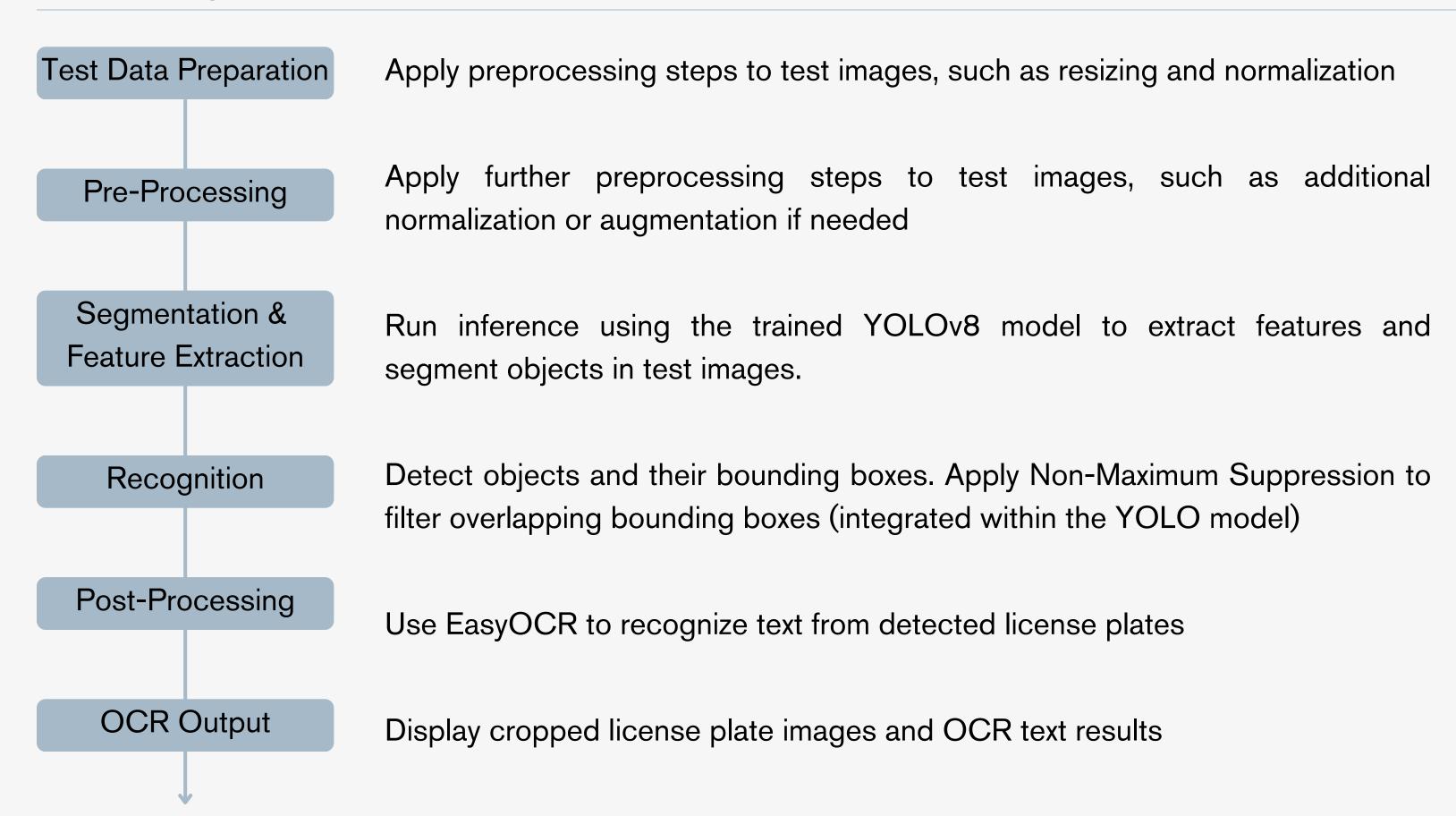
## Overall Workflow Diagram



## Training Pipeline



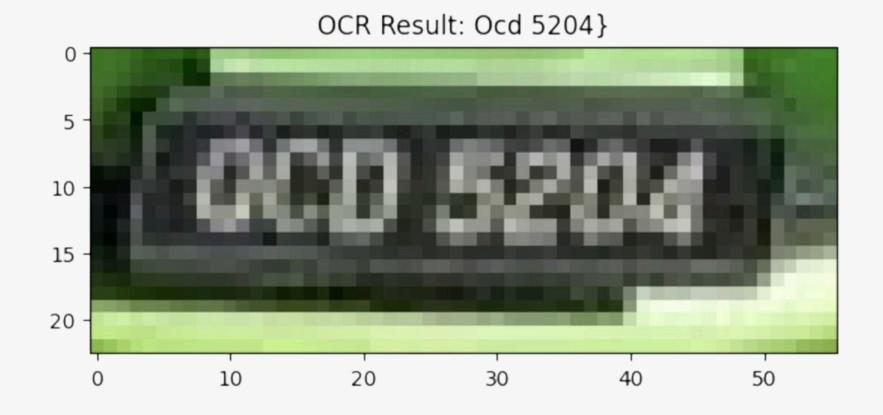
## Testing Pipeline



## Output Results

Output Results

Present the final results, including the detected objects and recognized text





### Live Demo



Try on mobile