COMPUTER VISION

Object Tracking and Motion Detection for vehicles that across bus road



Content

O1Problem

02Data

O3
Goals

O4Methodology

O5Result

06Future Work

O7Our Team

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Problem

In urban environments, monitoring and managing traffic flow, especially along bus roads, can be challenging.

Tracking and detecting vehicles along these roads is necessary.

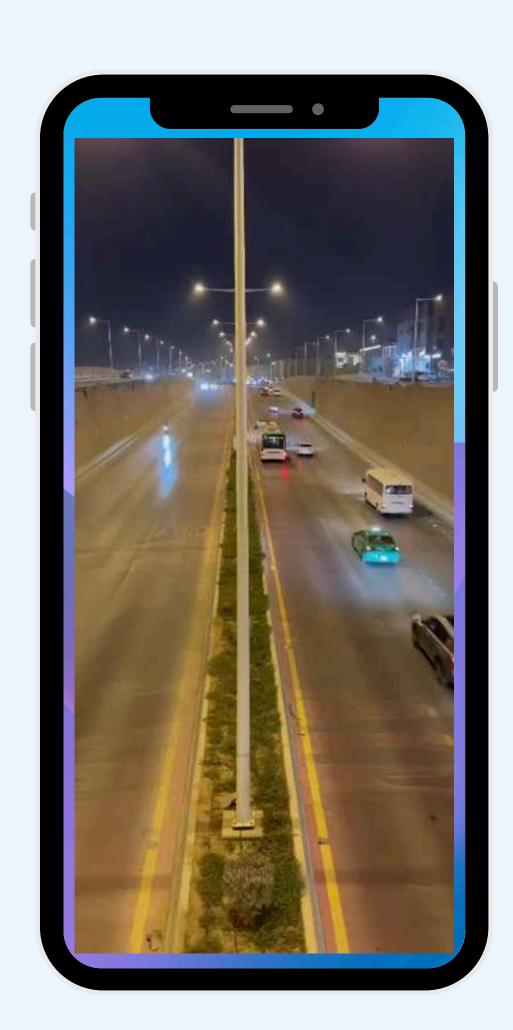


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Our Data Video

Data source:

We collected data for King Abdulaziz Road.



Goals

- Track vehicles in real-time.
- Detect motion patterns.
- Provide valuable insights for traffic management authorities and public transportation operators.

Methodology

Environment Setup and Library Loading — Load the YOLO Model

Prepare Video Capture

Define Region of Interest (ROI) and Visualize

Object Counter Initialization

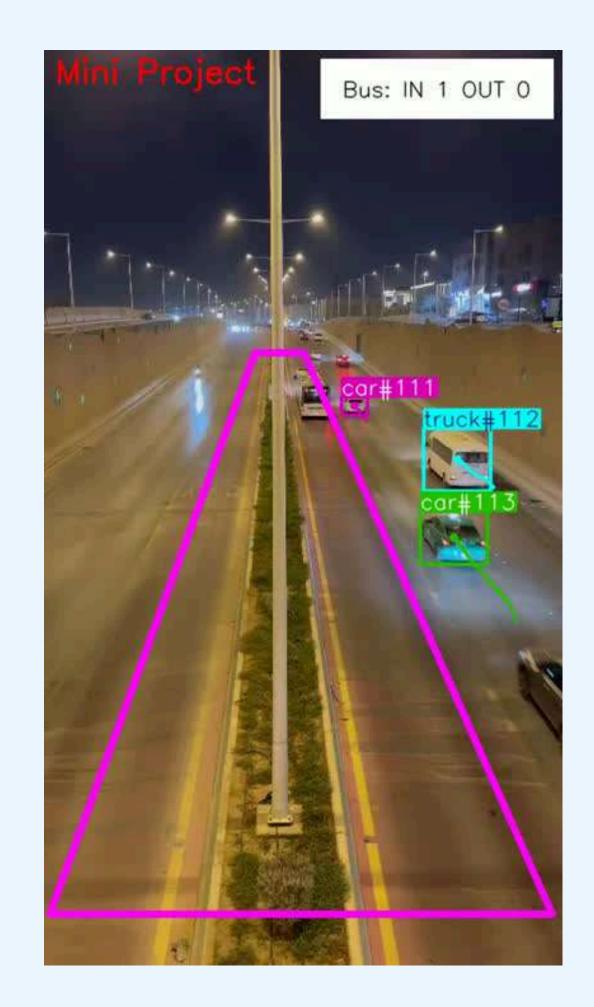
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Object Tracking and Counting

Release Resources

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Result



Future Work

Using the OCR to extract the vehicle plate information and store it in the database.

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Our Team

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THANK YOU!