

Technical Write-Up

Project name: Vehicle Counter

: Overview :

A Computer-Vision based project which tracks and counts all the vehicles passing in real-time and displays the live count on the MacBook, along with the live camera feed.

Python was used for grabbing the input, instructing the model, and displaying the output.

For the AI Model, Yolo v11 Large was chosen for it's excellent Computer-Vision capabilities and low-resource utilization.

: Components/Software Used :

1. Input Stage:
 - I. HikVision IP CCTV Camera
2. Processing & Output Stage:
 - I. Python (Coding language for communication between the input and the AI Model; And for displaying the output.)
 - II. Yolo v11 Large (The AI Model used for processing tasks)
 - III. MacBook Pro (The M2 Chip for the entire workflow; And the platform for the code, the model, and the display output.)

: Demo Picture :

