PANIMALAR INSTITUTE OF TECHNOLOGY

DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING

ANNA UNIVERSITY – ZEROTH REVIEW

BATCH NUMBER – B4

PROJECT TITLE : TRAFFIC VIOLATION DETECTION SYSTEM USING YOLOv7

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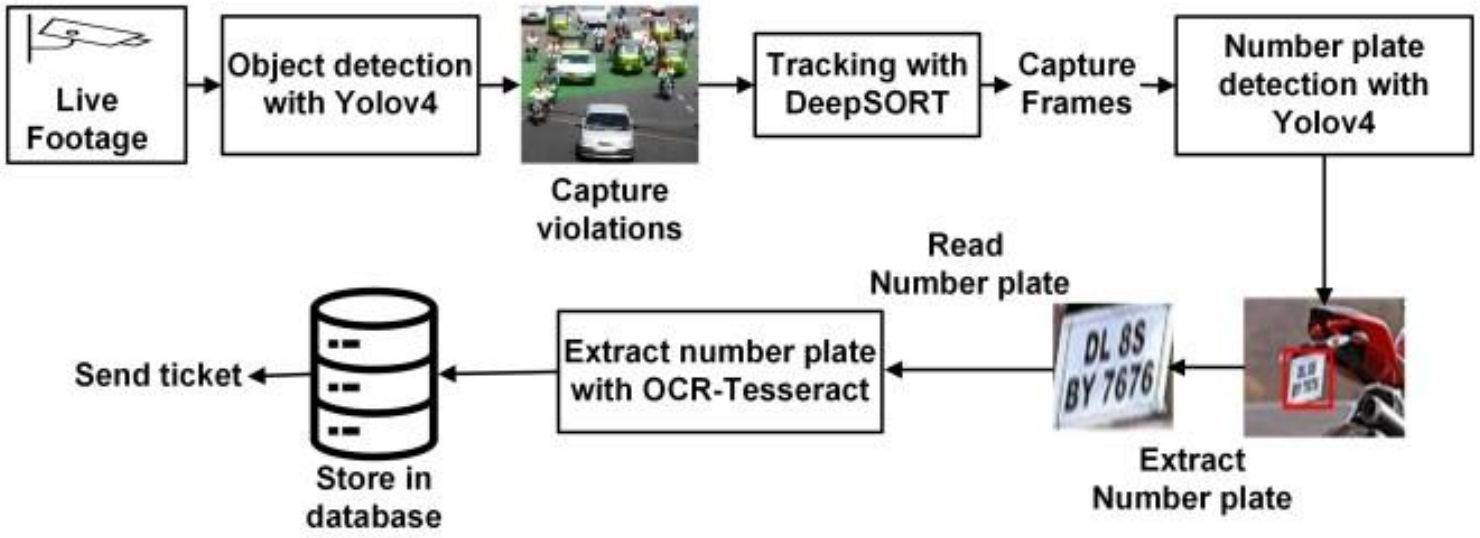
BASE PAPER

TITLE : "Two-Wheeler Vehicle Traffic Violations Detection and Automated Ticketing for Indian Road Scenario "

AUTHOR : **R. Shree Charran and Rahul Kumar Dubey , Senior Member, IEEE**



ABSTRACT

- The increasing number of bikes and cars in cities can cause high volume of traffic, and implies that traffic violations become more critical nowadays in India and also around the world.

- This causes severe destruction of property and more accidents that may endanger the lives of the people. To solve the alarming problem and prevent such unfathomable consequences, traffic violation detection systems are needed.

- In this paper we propose a system to automatically detect two-wheeler violations like not wearing a helmet, usage of a phone while riding, triple riding, wheeling, speeding and illegal parking for Indian road scenarios

- We propose using a custom Yolo-v7 , open cv and tkinder for GUI

DEVELOPMENT ENVIRONMENT

SOFTWARE REQUIREMENT :

Operationg System :windows 10 & 11
Language : PYTHON
IDE : MICROSOFT ‘S VISUAL STUDIO CODE
Libraries : Open CV, Tkinder(GUI)
Package Manager : PIP

HARDWARE REQUIREMENT:

CPU : Intel Core i5 @ 2.5GHz
RAM : 4GB OR above
Display : 720p Monitor or above

CONCLUSION

- The goal of the project is to automate the traffic signal violation detection system and make it easy for the traffic police department to monitor the traffic and take action against the violated vehicle owner in a fast and efficient way

- Detecting and tracking the vehicle and their activities accurately is the main priority of the system.

- Our model detect violation traffic violation like not wearing helmet, triple riding, illegal parking and speeding.