TRAFFIC VIOLATION DETECTION

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PROBLEM STATEMENT

Issues

- INADEQUATE REAL-TIME MONITORING AND ENFORCEMENT OF TRAFFIC VIOLATIONS LEADING TO SAFETY HAZARDS AND NON-COMPLIANCE WITH REGULATIONS.

Resolutions

- IMPLEMENT COMPUTER VISION AND MACHINE LEARNING TECHNIQUES FOR REAL-TIME DETECTION AND CLASSIFICATION OF TRAFFIC VIOLATIONS.

Outcomes

- ENHANCED ROAD SAFETY, IMPROVED REGULATORY ENFORCEMENT, AND REDUCED TRAFFIC VIOLATIONS THROUGH AUTOMATED DETECTION AND ENFORCEMENT MECHANISMS.

STATISTICS

The violation detection system based on computer vision technology has an accuracy of more than 96.86%.

Through computer vision technology, the system can accurately detect and identify vehicle violations in real time, effectively improving the efficiency and safety of traffic management.

STAKE HOLDERS

- Law Enforcement Agencies
- Government Authorities
- Drivers and Companies
- Insurance Companies
- Vendors and Manufacturers

PRESENT SCENARIO

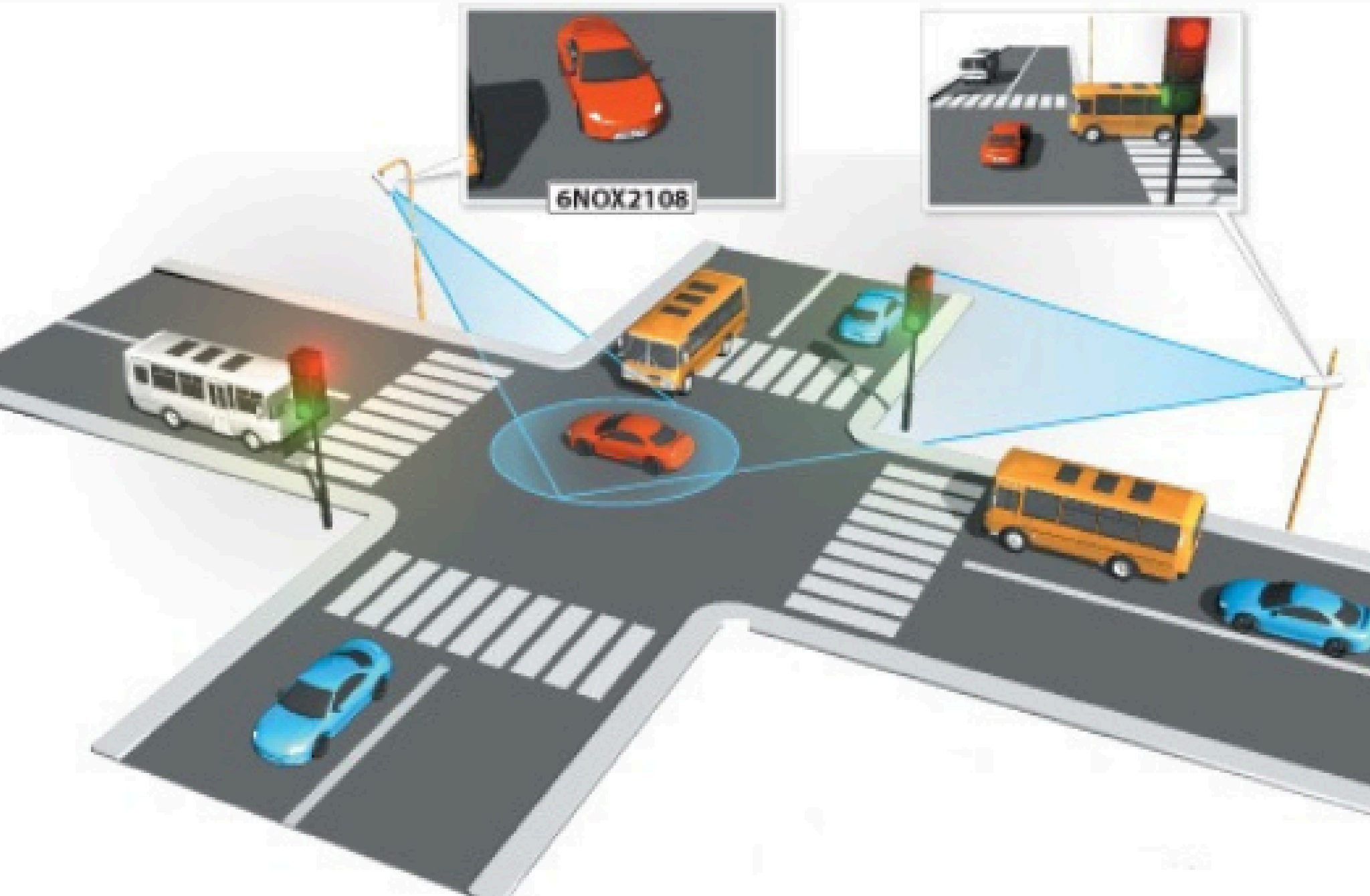
- A person has to check the CCTV footages regularly.
- A lot of man power is being invested.
- Detection speed is low in a situation where a machine is not involved.

PROPOSED SOLUTION

OUR SOLUTION ENTAILS DEVELOPING A MACHINE LEARNING MODEL USING COMPUTER VISION TECHNOLOGY FOR PRECISE AND REAL-TIME TRAFFIC VIOLATION DETECTION. IT WILL ACCURATELY IDENTIFY INFRACTIONS LIKE SPEEDING AND ILLEGAL PARKING, ENABLING PRIORITIZED ENFORCEMENT. CONTINUOUSLY IMPROVING THROUGH ADAPTIVE ALGORITHMS, IT PROMISES ENHANCED ROAD SAFETY AND REGULATORY ENFORCEMENT EFFICIENCY.

FEATURES

- AUTOMATIC DETECTION OF TRAFFIC VIOLATIONS FROM CCTV FOOTAGE.
- HIGH SPEED AND ACCURACY OF THE MODEL IN IDENTIFYING VIOLATORS.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THANK YOU