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ABSTRACT

The increasing number of 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. For which the system enforces proper traffic regulations at all times, and apprehends those who do not comply.

A traffic violation detection system must be realized in real-time as the authorities track the roads all the time. Hence, traffic enforcers will not only be at ease in implementing safe roads accurately, but also efficiently; as the traffic detection system detects violations faster than humans. This system can detect most common three types of traffic violation in real-time which are signal violation, parking violation and wrong direction violation. A user friendly graphical interface is associated with the system to make it simple for the user to operate the system, monitor traffic and take action against the violations of traffic rules.

The goal of the project is to automate the traffic rules 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.

The Traffic Monitoring System is one of the effective tools for enforcement of traffic rules on Indian roads in a transparent manner. The system aims at harnessing strength of technology and minimise human intervention to bring about the speed and transparency in the whole process of traffic regulation.

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