

Automatic Traffic Management System using AI and ML

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Abstract: *Traffic congestion is a major problem in many cities of India along with other countries. Failure of signals, poor law enforcement and bad traffic management has led to traffic congestion. Traffic congestion has a negative impact on the economy, the environment and the overall quality of life. Hence it is high time to effectively manage the traffic congestion problem. The purpose of the system is to propose a smart traffic management system using the Internet of Things and a decentralized approach to optimize traffic on the roads and intelligent algorithms to manage all traffic situations more accurately. The proposed system will overcome the flaws of previous traffic management systems. An algorithm will be used to predict the traffic density for future to minimize the traffic congestion. The proposed system helps to alleviate traffic congestion by turning all red lights on the emergency vehicle's route to green, allowing it to proceed to its destination without delay. The system controls traffic lights and saves time in an emergency period.*

Keywords: Traffic congestion