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# Smart Traffic Dynamic Manipulation System Using Vehicle Density

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**Abstract:**  
This paper proposes an improved approach to maximize the traffic flow by reducing the average queue length and average wait time. The task is performed by considering the density of vehicles present at each lane of road making it the dynamic manipulation instead of static. It uses image processing and object detection to identify the density of vehicles. Emergency vehicles like ambulance, fire trucks will be detected so that the particular lane will be given a green signal until the emergency vehicle is passed for higher preference over others. Also, the backup for failure of the live detection is provided by the help of machine learning model which will predict the density as per training.

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