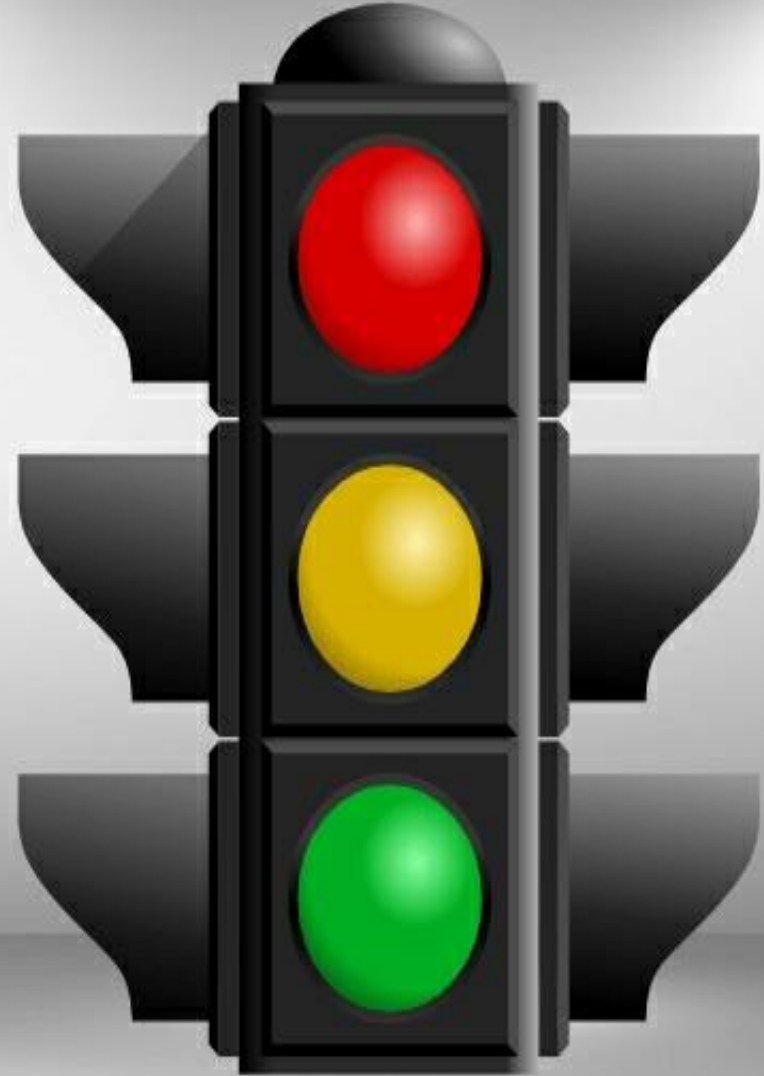


Advanced Traffic Managing System



Imagine a situation where you are in an medical emergency.
What could be the most common problem you are likely to face?

TRAFFIC

Emergence of Traffic Congestion

The technological and industrial developments have led to a wide-scale usage of vehicles which causes traffic issues across most cities

Problems due to Traffic Congestion

Causes delayed ambulance which results in casualty.

Pollution.

Stressed health conditions.

Road accidents.



What can we do for this?

The solution is to manage traffic efficiently by using optimized algorithms that control traffic signals

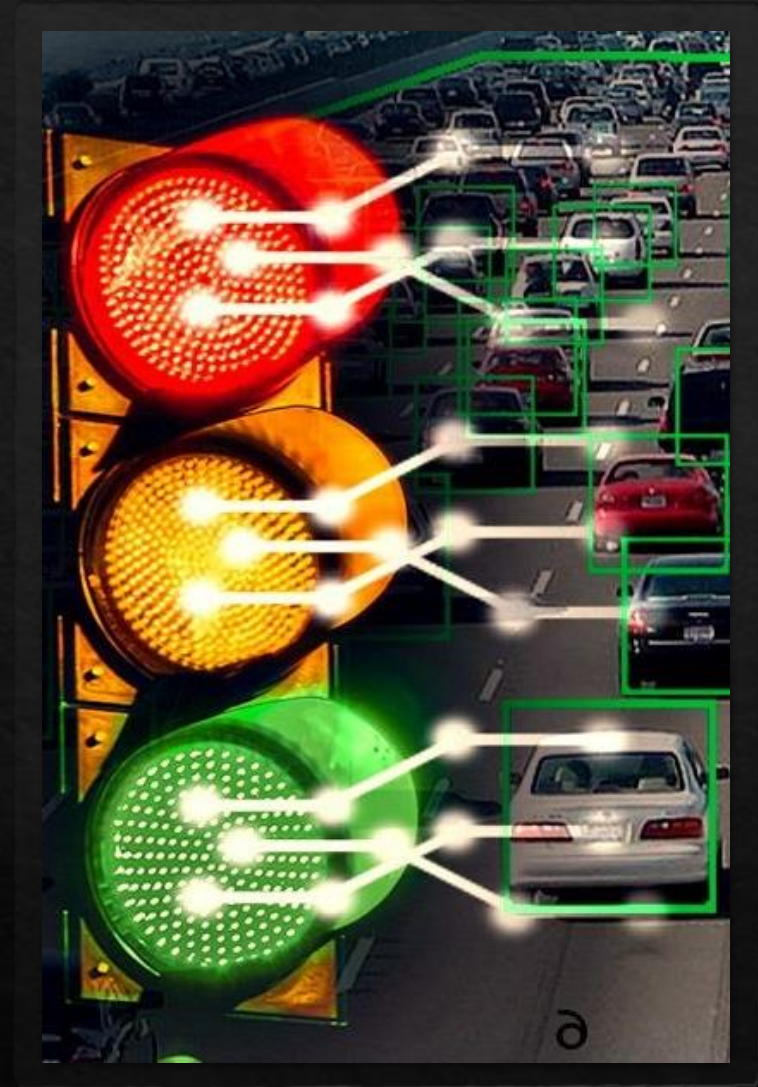
Solution

We came with an idea to solve
the problem by
using AI powered algorithm to
manage traffic efficiently.



Formation of Algorithm

The algorithm is formulated by analysing the data already collected, which finds the best combinations of traffic signals across a given area to minimize traffic congestion and ensure efficient passage of vehicles.



Working of Algorithm

The identification and computation of the traffic can be carried out through training neural networks using machine learning.



Implementation

This system uses an API (Application Programming Interface) to fetch live traffic data and a GPS to fetch the live location data of the vehicles. The server controls the traffic signals by implementing the algorithm found by analysis of collected data.

Real Time Applications

This can be implemented on a large-scale to run traffic signals across an entire city. Also, during emergencies, the vehicle could be given a higher priority to reach its destination quicker by controlling the traffic signals along its path. . This can also help optimise road safety and rescue operations.

Cost Minimization

This system has very few new hardware components, as already existing hardware can be controlled by the software written that uses the algorithm, which minimises the cost requirements

THANK YOU

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