**Visvesvaraya Technological University**

Belagavi, Karnataka- 590014

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## A Mini-Project Progress Report

## On

## “Solution to Traffic Problem”

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## Submitted in partial fulfillment of the requirements for the award of the Degree of

**BACHELOR OF ENGINEERING**

In

**INFORMATION SCIENCE AND ENGINEERING**

ACCREDITED BY NBA

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2022-2023

DEPARTMENT OF INFORMATION SCIENCE AND ENGINEERING

**DAYANANDA SAGAR COLLEGE OF ENGINEERING**

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2022-23

**CERTIFICATE**

This is to certify that the Mini Project work done on **“Solution to Traffic Problem”** is a bonafide work carried out by **Anagha R (1DS22IS017), Suvan Banerjee (1DS22IS168), Vaibhav S Magdum (1DS22IS177), Vedant Rajendra Balpande (1DS22IS181)**, in the partial fulfillment of II semester of Bachelor of Engineering in Information Science & Engineering of the Visvesvaraya Technological University, Belagavi during the academic year 2022-2023. The Project report has been approved as it satisfies the academics prescribed for the Bachelor of Engineering degree.

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**ABSTRACT**

The optimization of the existing traffic light system represents a critical step toward mitigating urban traffic-related issues. By integrating advanced methodologies and technologies discussed in [1], we aim to alleviate the challenges posed by the conventional traffic control system. The inadequacies of the current system become evident in its limited adaptability to real-time traffic conditions and its lack of consideration for various factors such as traffic volume, patterns, and emergency vehicle prioritization. This deficiency leads to prolonged travel times for commuters and jeopardizes the timely response of emergency services, potentially endangering lives. Our project introduces a dynamic traffic management approach, utilizing real-time data to adjust signal timings according to the changing traffic density. By doing so, we anticipate a significant reduction in traffic, shorter travel durations, and an overall enhancement in the quality of life for urban residents. The project's positive outcomes extend beyond individual commuters to encompass the broader community and local authorities. It promises a more efficient transportation system, reduced environmental impact, and the potential for substantial cost savings in the long term. These improvements align with the shared goal of creating safer, more sustainable, and highly functional urban environments.

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