**Visvesvaraya Technological University**

Belagavi, Karnataka- 590014

****

# 

## 

## A Mini-Project Progress Report

## On

## “Solution to Traffic Problem in Congested Area”

## 

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

## of

**BACHELOR OF ENGINEERING**

**INFORMATION SCIENCE AND ENGINEERING**

ACCREDITED BY NBA

**Submitted by**

|  |  |
| --- | --- |
| **ANAGHA R** | **1DS22IS017** |
| **SUVAN BANERJEE** | **1DS22IS168** |
| **VAIBHAV S MAGDUM** | **1DS22IS177** |
| **VEDANT RAJENDRA BALPANDE** | **1DS22IS181** |

Under the Guidance of

**DR. Varaprasad B K S V L**

Prof, Dept. of ISE, DSCE



2022-2023

DEPARTMENT OF INFORMATION SCIENCE AND ENGINEERING

**DAYANANDA SAGAR COLLEGE OF ENGINEERING**

**SHAVIGE MALLESHWARA HILLS, KUMARASWAMY LAYOUT, BANGALORE-560078**

**DAYANANDA SAGAR COLLEGE OF ENGINEERING**

(An Autonomous Institute affiliated to VTU, Belagavi, Approved by AICTE & ISO 9001:2008 Certified) Accredited by National Assessment & Accreditation Council (NAAC) with ‘A’ grade,

Shavige Malleshwara Hills,Kumaraswamy Layout, Bengaluru-560078.

**Department of Information Science and Engineering**

ACCREDITED BY NBA



2022-23

**CERTIFICATE**

This is to certify that the Mini Project work done on **“Solution to Traffic Problem”** is being submitted 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 progress report has been approved as it satisfies the academic requirements under the rules prescribed for the Bachelor of Engineering Degree.

Signature of the Guide Signature of HOD

DR. Varaprasad B K S V L DR. Rajeshwari J

Name of the Examiners Signature and Date

1.

2.

**ABSTRACT**

This project aims to make an existing system of traffic lights better by applying methods discussed in the mentioned article1. The primary objective is to make traffic more streamline in urban areas, addressing a drawback associated with the classic traffic light system. The existing system is slow and doesn't consider a lot of factors and has timed signals which causes traffic congestion, which can cause delays in emergency services like ambulances and has a greater environmental impact2. By using our project we provide a better traffic flow and reduced waiting time. The results of this project will benefit the individuals and authorities.

1. Article refers to Sharon, G. (2021). Alleviating Road Traffic Congestion with Artificial Intelligence. In IJCAI (pp. 4965-4969).
2. Source : https://www.ncbi.nlm.nih.gov/pmc/articles/PMC4243514/

i

**TABLE OF CONTENTS**

**ABSTRACT i**

**CHAPTER 1: INTRODUCTION 1-3**

1.1 Literature review ……………………………………………………...1

1.2 Motivation……………………………………………………………..2

1.3 Problem Definition…………………………………………………….3

1.4 Objectives……………………………………………………………...3

1.5 Expected Outcomes……………………………………………………3

**CHAPTER 2: PROPOSED METHODOLOGY 4-12**

2.1 Algorithms…………………………………………………………….5

2.2 Flow Chart…………………………………………………………….7

2.3 Implementation………………………………………………………..8

2.4 Components…………………………………………………………...10

**CHAPTER 3: CONCLUSION AND LEARNING OUTCOME 13-14**

3.1 Conclusion…………………………………………………………13

3.2 Learning Outcome…………………………………………………14

**REFERENCES 15**