

# **IDENTIFICATION OF HOW MANY PEOPLE HAVE THEIR OWN VEHICLE**

A Community Service Project Report Submitted to

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY, ANANTAPUR

Submitted By

**M.MUNIRAJA**  
(232U1A3356)

**G.VENKATA TEJA**  
(232U1A3325)

**M.VINAY KUMAR**  
(232U1A3363)

Under the Esteemed Guidance Of

**v. BHARATHI**

Associate professor

Department of Computer Science & Engineering (AI&ML)

*Project report submitted in partial fulfilment of the  
requirements for the award of the degree of*

**BACHELOR OF TECHNOLOGY**

**IN**

**COMPUTER SCIENCE AND ENGINEERING(AI&ML)**



**DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING(AI&ML)**

**GEETHANJALI INSTITUTE OF SCIENCE AND TECHNOLOGY**

**A Unit of USHODAYA EDUCATIONAL SOCIETY**

*Approved by AICTE, New Delhi & Permanently Affiliated to JNTUA, Anantapuramu*

**NAAC 'A' Grade Accredited Institution, An ISO 9001:2015 certified Institution**

**Recognized under Sec. 2(f)&12(B) of UGC Act, 1956**

3rd Mile Bombay Highway, Gangavaram (V), Kovur(M), SPSR Nellore (Dt), Andhra Pradesh, India-524137

Ph. No. 08622-212769, E-Mail: [geethanjali@gist.edu.in](mailto:geethanjali@gist.edu.in), Website: [www.gist.edu.in](http://www.gist.edu.in)



Website : [www.gist.edu.in](http://www.gist.edu.in)

Ph : 08622-212781

Email: [aimlhod@gist.edu.in](mailto:aimlhod@gist.edu.in)

Fax: 08622-212778

## GEETHANJALI INSTITUTE OF SCIENCE AND TECHNOLOGY

A Unit of USHODAYA EDUCATIONAL SOCIETY

*Approved by AICTE, New Delhi & Permanently Affiliated to JNTUA, Anantapuramu*

**NAAC 'A' Grade Accredited Institution, An ISO 9001:2015 certified Institution**

**Recognized under Sec. 2(f) & 12(B) of UGC Act, 1956**

3rd Mile, Bombay Highway, Gangavaram (V), Kovur (M), SPSR Nellore (Dt), Andhra Pradesh, India 524137

---

### **BONAFIDE CERTIFICATE**

This is to certify that the project work entitled **“IDENTIFICATION OF HOW MANY PEOPLE HAVE THEIR OWN VEHICLE”** is a bonafide record done by **M.MUNIRAJA (232U1A3356), G.VENKATA TEJA (232U1A3325), M.VINAY KUMAR (232U1A3363)** in the Department of **Computer Science & Engineering (AI&ML)**, **Geethanjali Institute of Science and Technology, Nellore** and is submitted to **Jawaharlal Nehru Technological University, Anantapur** in the partial fulfilment for the award of **B. Tech degree in Computer Science & Engineering(AI&ML)**. This work has been carried out under my supervision.

V.Bharathi  
Project Guide  
Department of CSE (AI&ML)  
GIST, NELLORE

Dr.P.Nagendra Kumar  
Associate Professor and HOD  
Department of CSE (AI&ML)  
GIST, NELLORE

Submitted for the Viva-Voce Examination held on

**Internal Examiner**

**External Examiner**

(2023-2027)

## ACKNOWLEDGEMENTS

The satisfaction that accompanies the successful completion of the project would be incomplete without the people who made it possible. Their constant guidance and encouragement crowned the efforts with success.

We express our deepest sense of gratitude to **Mr. N. SUDHAKAR REDDY, B.Tech, Secretary and Correspondent**, Geethanjali Institute of Science and Technology, Nellore and other members of Management for providing all the facilities needed for this work.

We owe our gratitude to **Dr. K.SUNDEEP KUMAR, Ph.D., PRINCIPAL**, Geethanjali Institute of Science and Technology, Nellore, for his consistent help and valuable suggestions.

Our special thanks to **Dr. P. NAGENDRA KUMAR, M.Tech, Ph.D., Associate Professor & Head of the Department**, Department of Computer Science & Engineering (AI&ML), Geethanjali Institute of Science and Technology, Nellore, who is also our guide, for his timely suggestions and help during the progress of project work in spite of his busy schedule.

During the entire course of dissertation work, we received valuable academic inputs as well as moral support from other departments, general teaching and non-teaching faculty at **GEETHANJALI INSTITUTE OF SCIENCE AND TECHNOLOGY**, Nellore. We were motivated by the uphold and moral encouragement given to us by our beloved parents. Finally, we wish to express our sincere thanks for all those who helped me directly or indirectly to complete the work.

### PROJECT ASSOCIATES

**M.MUNIRAJA (232U1A3356)**  
**G.VENKATA TEJA (232U1A3325)**  
**M.VINAY KUMAR (232U1A3363)**

## TABLE OF CONTENTS

<b>SNO</b>	<b>CONTENT</b>	<b>PAGE NUMBER</b>
1	ABSTRACT	i
2	SURVEY DATA	1
3	GRAPHS	3
4	CONCLUSION	4
5	SURVEY PHOTOS	5

## ABSTRACT

This project analyses the number of people who own personal vehicles using Constraint Satisfaction Problem (CSP) techniques. By considering factors such as income, urbanization, availability of public transport, and government policies, we formulate a CSP model to determine vehicle ownership trends. Constraints include budget limits, parking availability, and environmental regulations. The goal is to optimize solutions that predict ownership patterns and identify key influencing factors. This approach helps policymakers and urban planners make data-driven decisions for sustainable transportation planning.

## INTRODUCTION

Personal vehicle ownership has been rising globally due to increasing income levels, urban expansion, and the need for convenient transportation. According to recent studies, over 1.4 billion cars are in use worldwide, with the number growing annually. In urban areas, vehicle ownership varies based on factors like public transport efficiency, fuel prices, and government policies. Developed countries have higher ownership rates, with the U.S. averaging 0.88 vehicles per person, while developing nations show rapid growth in ownership. The rise in private vehicles also brings challenges, including traffic congestion and environmental concerns. Understanding ownership patterns helps in designing better transportation policies.

To analyse vehicle ownership trends, this project applies Constraint Satisfaction Problem (CSP) techniques. By defining constraints such as income levels, parking availability, and fuel costs, we model real-world factors affecting ownership. For example, a household with limited income and high public transport accessibility may have lower vehicle ownership. In contrast, suburban families with fewer transport options tend to own multiple cars. Using CSP allows us to predict ownership trends and explore optimal solutions for sustainable urban mobility. This study provides insights for policymakers to balance infrastructure growth with environmental sustainability.

## IDENTIFICATION OF HOW MANY PEOPLE HAVE THEIR OWN VEHICLE

NAME	M.SIVA NAGALAKSHMI
PHONE NO	7729897831
AADHAAR NO	657049014036
VEHICLE	YES
2-WHEELER	YES
3-WHEELER	N/A
4-WHEELER	N/A

NAME	SK. SHAFI
PHONE NO	7993787260
AADHAAR NO	630000579665
VEHICLE	YES
2-WHEELER	N/A
3-WHEELER	YES
4-WHEELER	N/A

NAME	G. VIJAYA BHARATHI
PHONE NO	8179158080
AADHAAR NO	510661854797
VEHICLE	YES
2-WHEELER	YES
3-WHEELER	N/A
4-WHEELER	N/A
NAME	G.UMA
PHONE NO	9989847758
AADHAAR NO	3850653057152
VEHICLE	NO
2-WHEELER	N/A
3-WHEELER	N/A
4-WHEELER	N/A



NAME	B. SRIHARI
PHONE NO	6300770992
AADHAAR NO	287432821756
VEHICLE	NO
2-WHEELER	N/A
3-WHEELER	N/A
4-WHEELER	N/A

NAME	K. LAKSHMI NARAYANA
PHONE NO	9493918367
AADHAAR NO	---
VEHICLE	YES
2-WHEELER	YES
3-WHEELER	N/A
4-WHEELER	N/A

NAME	P. SUMANTH
PHONE NO	9966492801
AADHAAR NO	699001425763
VEHICLE	NO
2-WHEELER	N/A
3-WHEELER	N/A
4-WHEELER	N/A
NAME	SK. CHAMUNDESWARI
PHONE NO	9652380993
AADHAAR NO	---
VEHICLE	YES
2-WHEELER	N/A
3-WHEELER	YES
4-WHEELER	N/A

NAME	SK. SAFROOL
PHONE NO	7702151103
AADHAAR NO	N/A
VEHICLE	YES
2-WHEELER	YES
3-WHEELER	N/A
4-WHEELER	N/A

NAME	CH. SWARNALATHA
PHONE NO	7780728622
AADHAAR NO	824544352394
VEHICLE	YES
2-WHEELER	YES
3-WHEELER	N/A
4-WHEELER	N/A

NAME	SK. MAHAMAD BASHA
PHONE NO	7799282551
AADHAAR NO	541306315585
VEHICLE	YES
2-WHEELER	YES
3-WHEELER	N/A
4-WHEELER	N/A

NAME	Y. SYAMALA
PHONE NO	9349153212
AADHAAR NO	354259879148
VEHICLE	YES
2-WHEELER	N/A
3-WHEELER	N/A
4-WHEELER	YES

NAME	K. HARSHA
PHONE NO	874555124
AADHAAR NO	512745963521
VEHICLE	YES
2-WHEELER	YES
3-WHEELER	YES
4-WHEELER	N/A

NAME	G. MAHENDRA REDDY
PHONE NO	8459714555
AADHAAR NO	181015826884
VEHICLE	YES
2-WHEELER	YES
3-WHEELER	YES
4-WHEELER	YES

NAME	SK. SAMEERA
PHONE NO	9491804125
AADHAAR NO	374278563529
VEHICLE	YES
2-WHEELER	YES
3-WHEELER	N/A
4-WHEELER	N/A

NAME	H. JAGADEESH KUMAR
PHONE NO	7808068184
AADHAAR NO	657173251467
VEHICLE	NO
2-WHEELER	N/A
3-WHEELER	N/A
4-WHEELER	N/A

NAME	M.VENKATESHWARULU
PHONE NO	7895834885
AADHAAR NO	523324630106
VEHICLE	YES
2-WHEELER	N/A
3-WHEELER	YES
4-WHEELER	N/A

NAME	M.VINAY KUMAR YADAV
PHONE NO	9324823528
AADHAAR NO	282021721539
VEHICLE	YES
2-WHEELER	YES
3-WHEELER	YES
4-WHEELER	N/A

NAME	M.MUNI SWAMI NAIDU
PHONE NO	9100528000
AADHAAR NO	520063007845
VEHICLE	YES
2-WHEELER	YES
3-WHEELER	N/A
4-WHEELER	YES

NAME	A. HARI
PHONE NO	9391804158
AADHAAR NO	608143362347
VEHICLE	NO
2-WHEELER	N/A
3-WHEELER	N/A
4-WHEELER	N/A



NAME	E. SURESH KUMAR
PHONE NO	9170466102
AADHAAR NO	203736014793
VEHICLE	YES
2-WHEELER	YES
3-WHEELER	N/A
4-WHEELER	N/A

NAME	M.VENKATESWARULU
PHONE NO	9229266625
AADHAAR NO	143430003943
VEHICLE	YES
2-WHEELER	YES
3-WHEELER	N/A
4-WHEELER	N/A

NAME	G. YEDUKONADALU
PHONE NO	7282662310
AADHAAR NO	515784929491
VEHICLE	YES
2-WHEELER	YES
3-WHEELER	N/A
4-WHEELER	N/A

NAME	G. GOVINDULU
PHONE NO	8197368211
AADHAAR NO	251608737178
VEHICLE	YES
2-WHEELER	YES
3-WHEELER	N/A
4-WHEELER	N/A

NAME	J.SAI
PHONE NO	9898858248
AADHAAR NO	557283331336
VEHICLE	YES
2-WHEELER	YES
3-WHEELER	N/A
4-WHEELER	N/A

NAME	K. NAGALAKSHMI
PHONE NO	7993599961
AADHAAR NO	708267631909
VEHICLE	YES
2-WHEELER	N/A
3-WHEELER	N/A
4-WHEELER	N/A

NAME	K. BALAJI
PHONE NO	9520812851
AADHAAR NO	111174154994
VEHICLE	NO
2-WHEELER	N/A
3-WHEELER	N/A
4-WHEELER	N/A

NAME	CH. SHYAM
PHONE NO	7780302433
AADHAAR NO	249453195890
VEHICLE	NO
2-WHEELER	N/A
3-WHEELER	N/A
4-WHEELER	N/A

NAME	M.SUREKA
PHONE NO	7415204346
AADHAAR NO	409605492625
VEHICLE	YES
2-WHEELER	YES
3-WHEELER	N/A
4-WHEELER	N/A

NAME	Y. SUNDARI
PHONE NO	8722236338
AADHAAR NO	251294711684
VEHICLE	YES
2-WHEELER	N/A
3-WHEELER	N/A
4-WHEELER	N/A

NAME	M.VINOD
PHONE NO	7586542158
AADHAAR NO	251294711684
VEHICLE	YES
2-WHEELER	N/A
3-WHEELER	N/A
4-WHEELER	YES

NAME	T. HEMALATHA
PHONE NO	8172003782
AADHAAR NO	586713251740
VEHICLE	YES
2-WHEELER	YES
3-WHEELER	N/A
4-WHEELER	N/A

NAME	N. CHAMUNDESWARI
PHONE NO	9383846794
AADHAAR NO	452806418374
VEHICLE	NO
2-WHEELER	N/A
3-WHEELER	N/A
4-WHEELER	N/A

NAME	M.DHARANI
PHONE NO	8688975594
AADHAAR NO	---
VEHICLE	YES
2-WHEELER	N/A
3-WHEELER	N/A
4-WHEELER	YES

NAME	N. CHARAN
PHONE NO	9036864531
AADHAAR NO	987240541355
VEHICLE	YES
2-WHEELER	N/A
3-WHEELER	YES
4-WHEELER	YES

NAME	N. MADHU
PHONE NO	7882582059
AADHAAR NO	960488703911
VEHICLE	YES
2-WHEELER	N/A
3-WHEELER	YES
4-WHEELER	N/A



NAME	CH. MAHESH
PHONE NO	73438665291
AADHAAR NO	366233272904
VEHICLE	YES
2-WHEELER	N/A
3-WHEELER	YES
4-WHEELER	N/A

NAME	G. VEENELA
PHONE NO	8885369625
AADHAAR NO	---
VEHICLE	YES
2-WHEELER	N/A
3-WHEELER	N/A
4-WHEELER	YES

NAME	B. BHARATHAMMA
PHONE NO	9356302244
AADHAAR NO	532853128622
VEHICLE	NO
2-WHEELER	N/A
3-WHEELER	N/A
4-WHEELER	N/A

NAME	M.LUCKY
PHONE NO	7288085381
AADHAAR NO	872414133684
VEHICLE	YES
2-WHEELER	N/A
3-WHEELER	N/A
4-WHEELER	YES

NAME	G. HEMASRI
PHONE NO	9391804412
AADHAAR NO	374278243519
VEHICLE	NO
2-WHEELER	N/A
3-WHEELER	N/A
4-WHEELER	N/A

NAME	K. RAVI KUMAR
PHONE NO	7386212679
AADHAAR NO	588049915391
VEHICLE	YES
2-WHEELER	YES
3-WHEELER	N/A
4-WHEELER	N/A

NAME	SK. SAJIMA
PHONE NO	9834755646
AADHAAR NO	---
VEHICLE	YES
2-WHEELER	N/A
3-WHEELER	N/A
4-WHEELER	YES

NAME	M.VAMSI KRISHNA
PHONE NO	9398670378
AADHAAR NO	462943782087
VEHICLE	YES
2-WHEELER	YES
3-WHEELER	N/A
4-WHEELER	N/A

NAME	SK. ASMA
PHONE NO	7102455952
AADHAAR NO	322872647440
VEHICLE	YES
2-WHEELER	YES
3-WHEELER	N/A
4-WHEELER	N/A

NAME	K. VINAY
PHONE NO	6300113808
AADHAAR NO	---
VEHICLE	YES
2-WHEELER	N/A
3-WHEELER	N/A
4-WHEELER	YES

NAME	K. MAHIMA
PHONE NO	7100758650
AADHAAR NO	---
VEHICLE	YES
2-WHEELER	YES
3-WHEELER	N/A
4-WHEELER	N/A

NAME	P. VIJAY KRISHNA
PHONE NO	9121258244
AADHAAR NO	997715814996
VEHICLE	YES
2-WHEELER	YES
3-WHEELER	N/A
4-WHEELER	N/A

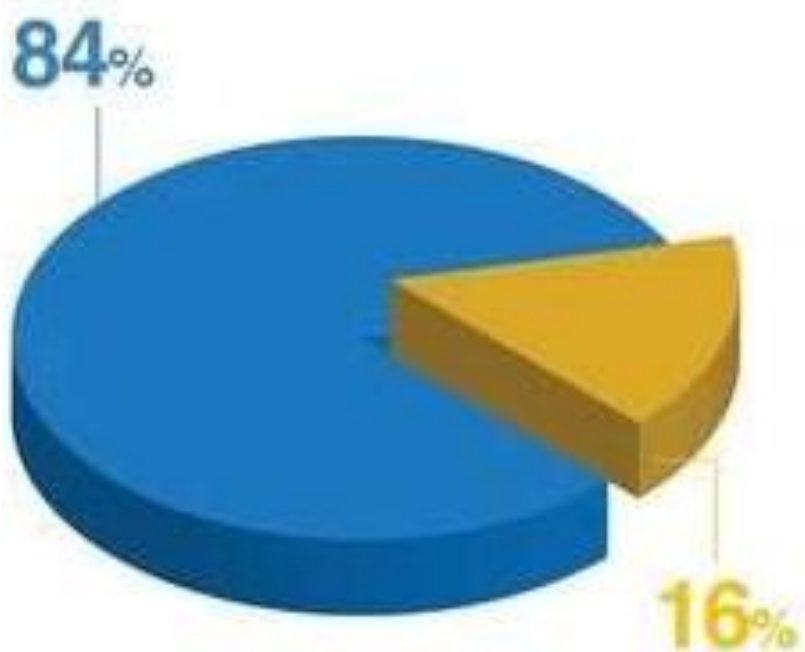
NAME	M.KRISHNA
PHONE NO	8564922451
AADHAAR NO	193609246425
VEHICLE	YES
2-WHEELER	N/A
3-WHEELER	YES
4-WHEELER	N/A

NAME	SK. IMRAN
PHONE NO	8800459172
AADHAAR NO	---
VEHICLE	YES
2-WHEELER	N/A
3-WHEELER	YES
4-WHEELER	N/A

## GRAPHS

Total number of people have own vehicle	42
Total number of people not have own vehicle	8

**Count of people who are using own vehicle or not**





## CONCLUSION

It has been identified from the survey that 84% of the people are have own vehicle and the16%people are not have own vehicles

