### Project Report

**On**

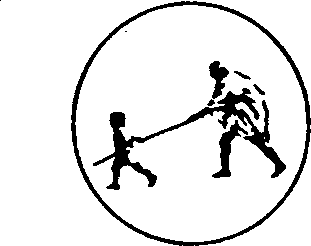
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**By**

**Aastha Kulkarni Shivani Jadhav**

**Under the Guidance Of**

### Ms. D. B. Aghor

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**DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING**

**Mahatma Gandhi Mission’s College of Engineering, Nanded (M.S.)**

Project Report on



**Submitted to**

## DR. BABASAHEB AMBEDKAR TECHNOLOGICALUNIVERSITY, LONERE

**in fulfillment of the requirement for the degree of**

## BACHELOR OF TECHNOLOGY

in

## COMPUTER SCIENCE & ENGINEERING

### By

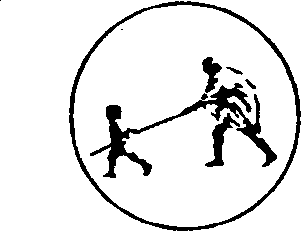
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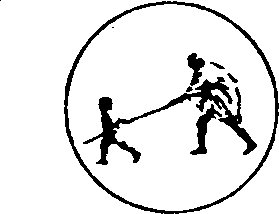
(Department of Computer Science and Engineering)



## DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING

**MAHATMA GANDHI MISSION’s COLLEGE OF ENGINEERING,NANDED (M.S.)**

***Certificate***

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*This is to certify that the project entitled*

### “Smart Car Parking”

*being submitted by* ***Miss. Aastha Kulkarni and Shivani Jadhav*** *to the Dr. Babasaheb Ambedkar Technological University, Lonere for the award of the degree of Bachelor of Technology in Computer Science and Engineering, is a record of bonafide work carried out by them under my supervision and guidance. The matter contained in this report has not been submitted to any other university or institute for the award of any degree*.

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With Deep Reverence**,**

**Aastha Kulkarni Shivani Jadhav**

I

The main aim of this smart car parking project is to create a completely automated car parking system with minimal human interference. With the rising population in the world, time is of the essence, and hence we need to minimize the time taken by trivial activities such as finding a place to park in a busy place and avoid traffic congestion. In our project, we propose a smart and automated car parking model that will help the user book their parking spaces beforehand, and the vehicle will be able to park automatically once in the parking zone. The difference between our project of automated car parking systems is that we hope to minimize human interaction as much as possible and make both the vehicle and the parking area fitted with sensors that will help us execute a safe and efficient way of parking. Hence, we aim to provide a completely safe and automated experience that is robust, can be implemented in real- time, and hopefully will be implemented as the general norm for parking systems in the future.

Due to the increasing population in urban cities, there is an exponential rise in the number of vehicles, which is leading to major problems such as poor traffic management and congestion. Another major problem faced by vehicle owners is the availability of parking spaces. The idea of smart cities is slowly gaining traction with ever-increasing technologies. Therefore, in the proposed parking system, we are integrating the wireless sensor technology with the Android application so that the user can book or pre-book a slot. The vehicle owner will be able to reserve a slot for his or her vehicle from anywhere and will be provided with a receipt of booking, which will be shown at the parking lot.

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