VISVESVARAYA TECHNOLOGICAL UNIVERSITY

Jnana Sangama,Belagavi-590018.

A SEMINAR Report on

"Intelligent Face Recognition Based Multi-Location Linked IoT Based Car Parking System"

Submitted in the partial fulfilment of the requirements for the award of the Degree of

Bachelor of Engineering

in

Information Science and Engineering

By

Mandeep n (1OX20IS043)

Under the guidance of

MENTION SEMINAR CO-ORDINATOR NAME

DESIGNATION

Department of Information Science and Engineering

THE OXFORD COLLEGE OF ENGINEERING

Bommanahalli, Bangalore 560068

2023-24

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CERTIFICATE

Certified that the Seminar entitled "Intelligent Face Recognition BasedMulti-Location Linked IoT Based Car Parking System"carried out by **MANDEEP N** with 1OX20IS043, bonafide student of The Oxford College of Engineering, Bengaluru in partial fulfilment for the award of Degree of Bachelor of Engineering in Information Science and Engineering of the Visvesvaraya Technological University, Belagavi, during the year 2023-2024. It is certified that all corrections/suggestions indicated for Internal Assessment is incorporated in the report deposited in the departmental library. The seminar report is approved as it satisfies the academic requirements in respect of seminar work prescribed for the said degree.

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DECLARATION

I **MANDEEP N** the student of Eighth Semester B.E, at the Department of Information Science and Engineering, The Oxford College of Engineering, Bengaluru declare that the Seminar entitled"Intelligent Face Recognition Based Multi-Location Linked IoT Based Car Parking System" is carried out by me and submitted in partial fulfillment of the course requirements for the award of degree in Bachelor of Engineering in Information Science and Engineering discipline of Visvesvaraya Technological University, Belagavi during the academic year 2023-2024.

Name	USN	Signature
Mandeep n	1OX20IS043	

Date: Place: Bangalore

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Guidance and deadlines play a very important role in successful completion of the seminar report on time. I convey my gratitude to "**SEMINAR CO-ORDINATOR NAME"**, Assistant Professor, Department of Information Science and Engineering for having constantly monitored the completion of the seminar report and setting up precise deadlines.

Finally, a note of thanks to the Department of Information Science and Engineering, both teaching and non-teaching staff for their cooperation extended to us.

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ABSTRACT

This system leverages cutting-edge technologies such as facial recognition and IoT to provide a seamless and intelligent parking experience. By employing facial recognition, registered users can access designated parking spaces without the need for physical tokens or tickets, enhancing convenience and security. Furthermore, the system is designed to link multiple parking locations, enabling users to seamlessly navigate and locate available parking spots across different sites.

In urban environments, efficient management of parking spaces is crucial to alleviate traffic congestion and optimize resource utilization. Traditional parking systems often suffer from inefficiencies and lack real-time monitoring capabilities. To address these challenges, we propose an Intelligent Face Recognition Based Multi-Location Linked IoT (Internet of Things) Car Parking System.

Key features of the proposed system include real-time monitoring of parking occupancy, dynamic allocation of parking spaces based on demand, and integration with mobile applications for user convenience. Additionally, the IoT infrastructure enables automated data collection and analysis, facilitating predictive analytics for future parking demand forecasting and optimization.

TABLE OF CONTENTS

LIST OF TABLES