

**DECLARATION OF WORK**

I, the undersigned, do hereby declare that I am a duly qualified and experienced person to undertake the work assigned to me and that I have no conflict of interest in the performance of the same.

*[Signature]*  
Name: **Pragati**  
Designation: **Manager**

Date: **10/10/2024**  
Place: **Chennai**

This is to certify that the above mentioned work has been completed satisfactorily and to the best of my knowledge.

*[Signature]*  
Name: **Pragati**  
Designation: **Manager**  
Place: **Chennai**

*[Signature]*  
Name: **Pragati**  
Designation: **Manager**  
Place: **Chennai**

*[Signature]*  
Name: **Pragati**  
Designation: **Manager**  
Place: **Chennai**


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## CERTIFICATE

I hereby **acknowledge** that Gaurav Prajapati, a **fifth semester** Internet of Things (IoT) **s**  
**udent** at Madhav Institute of Technology, Gwalior, who has completed a **small project** in  
the academic year 2024-25

My project is "IoT Smart Car Parking System" as guided by Prof. Dr. Namita Arya.

The project was developed using C programming and libraries and built using many IoT es  
sentials like Arduino UNO, servo motors, breadboard, 6 infrared modules and jumper wi  
res. Passion and talent to complete the project.

  
Dr. Namita Arya

Assistant Professor

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## ACKNOWLEDGEMENT

The semester long internship/project turned out to be very important for my career. I am grateful to my institution, Madhav Institute of Technology and Science, for allowing me to pursue my discipline/work study/study work as per the following requirements. Any changes in curriculum are approved by the academic committee of the institute. For this, I would like to thank Dr. R.K. Pandit, Director of the institute and Dr. Manjaree Pandit, Academic Dean.

We are grateful to my office IoT Center for allowing me to explore this project. We would like to thank Dr. Praveen Bansal, Assistant Professor and Coordinator of IoT Center for his continuous support during this collaboration supporting processes and procedures. My gratitude goes to my mentor. We would like to thank Dr. Namita Arya, Assistant Professor at IoT Center for her guidance and continuous support and guidance throughout the project. We would also like to thank our department teachers and staff.

  
Gaurav Prajapati

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Centre for Internet of Things



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### ABSTRACT

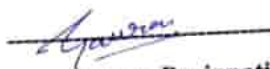
IoT smart parking is a new solution designed to solve the problem of poor parking in urban environments. Combining Internet of Things (IoT) technology with real-time monitoring, the system provides a practical and easy-to-use machine that simplifies the process of stopping the car.

The system improves the user experience by reducing the time spent searching for parking and the number of parking spaces. Local devices such as LCD or LED screens provide instant updates in the parking lot, while the cloud platform provides automation and access to remote areas.

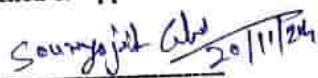
### PLAGIARISM CHECK CERTIFICATE

In our statement, we are B.Tech students. Internet of Things (IOT) Institute examined my thesis titled "IOT Smart Parking System" for similarity/plagiarism using "Turnitin" software provided by the Institute.

This is to verify that the similarity in our report is within the limits (20%) 18%.  
Get the full plagiarism report and its content.

  
Gaurav Prajapati  
090110221034

Checked & Approved By:

  
20/11/24

Dr. Soumyajit Ghosh  
Assistant Professor  
Centre for Internet of Things  
MITS, Gwalior

## ANNEXURE

### SELF-EVALUATION OF INTERNSHIP/ PROJECT

Month	Start date – End date (DD/MM/YY) - (DD/MM/YY)	Progress of Internship/ Project
Month- 1	01/08/24 – 31/08/24	Defined project scope and requirements. -Define the Objective -Identify Requirements -Plan Architecture
Month- 2	01/09/24 – 30/09/24	Hardware Setup - <b>Connect Sensors</b> Connect sensors to the microcontroller (e.g., Arduino). - <b>Set Up Display Unit</b>
Month- 3	01/10/24 – 31/10/24	<b>Test Connections</b> -Test Sensor Accuracy -Test Data Transmission -Verify Display Units
Month- 4	01/11/24 – 19/11/24	Deployment -Install Sensors in Parking Spots -Install Display Units -Prepared and submitted the Turnitin plagiarism report. - Finalized project for submission.

*Dr. Namita Arya*  
20-11-24

**Dr. Namita Arya**  
**Assistant Professor**