

## SOHAM GAGARE

Robotics & IoT Developer

📍 Sangamner, India

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## PROFESSIONAL SUMMARY

I'm a passionate Robotics and IoT Developer with hands-on experience in building smart and connected systems.

I specialize in IoT automation, embedded systems, and intelligent robotics, integrating hardware with software to create innovative solutions. Currently pursuing my Bachelor of Computer Applications (BCA) at Mysore University.

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## EXPERIENCE

### Robotics & IoT Developer

*The Baap Company, Sangamner*

**June 2024 – Present**

- Working on IoT automation and embedded system projects.
  - Developing smart solutions using ESP32, Arduino, Python, and cloud platforms.
  - Integrating hardware with web technologies for real-time monitoring.
  - Collaborating with team members to design, test, and deploy intelligent systems.
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## PROJECTS

### 1. Smart Attendance Management System

- Face detection-based attendance tracker using IoT integration.
- Used OpenCV and ARC Face model in Python for automatic face recognition.
- Synced attendance data to AWS/Firebase IoT cloud in real time.
- Stored logs in SQLite and exported reports as CSV.
- Documentation :  
[https://drive.google.com/file/d/1UHYmoLQVYuONGmlvtBvntGd6bmhP96XI/view?usp=drive\\_link](https://drive.google.com/file/d/1UHYmoLQVYuONGmlvtBvntGd6bmhP96XI/view?usp=drive_link)

### 2. GPS Tracker System

- Built a real-time GPS tracking system using ESP32 and SIM900A module.
- Sent live latitude and longitude data to cloud server via GSM network.
- Displayed location on a web dashboard for monitoring.

- Documentation :  
[https://drive.google.com/file/d/18mykl8kgwh8vUNkNe3ah7HdTuMzGYqcT/view?usp=drive\\_link](https://drive.google.com/file/d/18mykl8kgwh8vUNkNe3ah7HdTuMzGYqcT/view?usp=drive_link)

### 3. Smart Parking System

- Used YOLOv8 and OpenCV for real-time vehicle detection and counting.
  - Integrated IoT sensors to monitor parking slot availability.
  - Displayed live parking status on a web dashboard.
  - Documentation :  
[https://drive.google.com/file/d/1TvgYUx-gslbjbWg\\_7gYQII41NeHHhGIH/view?usp=sharing](https://drive.google.com/file/d/1TvgYUx-gslbjbWg_7gYQII41NeHHhGIH/view?usp=sharing)
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## EDUCATION

### Bachelor of Computer Applications (BCA)

*Mysore University*

2024 – 2027

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## TECHNICAL SKILLS

**Programming:** Python, C, C++, JavaScript, HTML, CSS, Bootstrap

**IoT & Hardware:** ESP32, Arduino, Sensors, GPS, GSM (SIM900A), Raspberry Pi

**Databases:** SQL, SQLite

**Cloud & Tools:** AWS IoT Core, FastAPI, Flask

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## SOFT SKILLS

- Organized
- Communication
- Critical Thinking
- Teamwork
- Meeting Deadlines