

SAARANSH GUPTA

**Technical Skills:** Python, Java, OpenCV, Embedded C, IoT (Embedded Systems), Machine Learning, MATLAB

**Certification:**

* **COURSERA** - Introduction to Self-Driving Cars by University of Toronto
* **INTEL** - Intel® Unnati Industrial Training – 2024
* **MATLAB** – Signal Processing, Image Processing, Fundamentals & Simulink
* **VITYARTHI** – Python Essentials, Fundamental of AI & ML, Computer Vision

Registration No: 22BAC10027

saaranshgupta1403@gmail.com

Phone: +91 8871440785

[www.linkedin.com/in/saaransh-g](http://www.linkedin.com/in/saaransh-g) <https://github.com/saaranshg>

|  |  |  |  |
| --- | --- | --- | --- |
| **EDUCATION** | | | |
| **Board** | **Tenure** | **Educational institution** | **CGPA/Percentage** |
| B. Tech (ECE – AI & Cybernetics) | Oct 2022 – Ongoing | Vellore Institute of Technology, (Bhopal) | 9.15/10 |
| Class XII (MPBSE) | April 2021 – Mar 2022 | Govt. Model Hr. Sec. School, Katni | 91.6% |
| Class X (MPBSE) | April 2019 – Mar 2020 | Govt. Model Hr. Sec. School, Katni | 95% |
| **ACADEMIC PROJECTS** | | | |
| Full Stack Web Dev, IoT, Sensors, Automation | **Rapid Rescue with Smart Ambulance** (July 2024 – Ongoing)   * Description: Creating a Web application and a smart IoT Device, provide services to patients at highly emergency situations and also provide a smart navigation and traffic signal manipulation makes an ambulance a smart ambulance. * Leading 9 Members Team * Role: Integrating Hardware & Software, Sensor Fusion | | |
| Electronics – IoT, Computer Vision &  Sensors, Automation | **Gesture Controlled Electronics** (Feb 2024-May 2024)   * Description: Created an automated system that utilize Raspberry Pi 4B, 5-Megapixel camera, and a 4-Relay module to control electronic devices on the basis of hand gestures. Real-time hand gesture recognition, allowing intuitive control of lights, motors, and other devices. * Technology: Python, IoT sensors, Computer Vision, Actuators, Drivers, Raspberry Pi * Team Project: 3 Members * Role: Sensor Fusion, Image Processing and Computer Vision | | |
| Electronics – IoT &  Sensors | **Fruits and Vegetable Spoilage Detection System** (Sep 2023-Nov 2023)   * Description: Developed a system that utilizes the MQ2 gas sensor and Ultrasonic Sensor to   detect methane levels, assessing fruit and vegetable spoilage in real-time.   * Technology: Embedded C, IOT sensors, Actuation system, Controllers (Arduino) and Drivers * Team Project: 3 Members * Role: Sensor Fusion, IoT and Programming Embedded C (Arduino) | | |

|  |  |
| --- | --- |
| **INTERNSHIP** | |
| Maven Silicon | **Embedded Systems Intern** (Jan 2025 – Ongoing)  Demonstrated applied proficiency with Arduino UNO Rev3, Raspberry Pi 3, and Node MCU boards  Effectively integrated diverse sensors to gain knowledge of 3 Serial Communication protocols |

|  |  |
| --- | --- |
| **EXTRA-CURRICULARS AND ACHIEVEMENTS** | |
| Achievements | * **STARS SCHEME Student 2022 (DISTRICT TOPPER)** * BHARAT GOURAV SAMMAN AWARD Issued by ESO INDIA * Smart India Hackathon 2023 Qualified Internal Rounds (As Team Lead) |
| Co-curricular Duties | * Worked as Media Creator at GARVIT |
| Extracurricular | * Finalist in Industrial Expo 2024 * Finalist in Fusion 2024 (Organized by College) |

|  |  |
| --- | --- |
| **ADDITIONAL INFORMATION** | |
| Hobbies | * Playing Cricket, Chess & Video Games * Travelling & Hiking |
| Languages | English, Hindi |