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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

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-curricularDuties	• 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