

SAARANSH GUPTA

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EDUCATION

VIT Bhopal University

B.Tech ECE (AI & Cybernetics)

Cumulative GPA: 9.20/10

Bhopal, Madhya Pradesh

2022 – 2026

Govt. Model Higher Secondary School

CLASS XII

Percentage: 91.6%

Katni, Madhya Pradesh

Apr 2021 - Mar 2022

Govt. Model Higher Secondary School

CLASS X

Percentage: 95%

Katni, Madhya Pradesh

April 2019 - Mar 2020

TECHNICAL SKILLS

- **Languages:** Python, SQL, Java, Embedded C
- **Technologies/Frameworks:** IoT (Embedded Systems), Computer Vision, Machine Learning
- **Tools & Applications:** MATLAB, OpenCV, Arduino IDE, LTSpice, Raspberry Pi

ACADEMIC PROJECTS

Rapid Rescue with Smart Ambulance

Sep 2024 – Mar 2025

Full Stack Web Dev, IoT, Sensors, Embedded Systems

- Developed a Web application and a Smart Embedded-IoT Device, providing services to patients in highly emergency situations and also providing smart navigation and traffic signal manipulation features for Smart Ambulance.
- **Role:** Leading Team and Integrating Hardware Devices with Software, Sensor Fusion
- **Technologies:** Raspberry Pi 4B, ESP32, GPS&GSM module, Blynk IoT, Python, Embedded C

Hand Gestures Controlled Electronics

Feb 2024 – May 2024

Electronics – IoT, Computer Vision, Sensors, Embedded Systems

- Created an automated system that utilizes Raspberry Pi, Camera Module, and Relay Module to control Electronic Devices on the basis of Hand Gestures, allowing intuitive control of lights, motors, and other devices.
- **Role:** Image Processing and Computer Vision, Integrating Hardware (Sensors & Actuators).
- **Technologies:** Python, OpenCV, IoT Sensors, Raspberry Pi, TinkerCad

Fruits & Vegetable Spoilage Detection System

Sep 2023 – Nov 2023

Electronics – IoT & Sensors, Embedded Systems

- Developed a system that utilizes MQ2 Gas Sensors and Ultrasonic Sensor to detect Methane & Carbon Monoxide, assessing fruits and vegetables spoilage in real-time.
- **Role:** Embedded C Programming, Sensor Fusion, Hardware Integration, Data Collection
- **Technologies:** Arduino Uno R3, TinkerCad, Embedded C

EXTERNSHIP

Embedded Systems Design Intern

Bangalore, India

Maven Silicon

Jan 2025 – Mar 2025

- Worked with Arduino UNO, Raspberry Pi and Node MCU boards.
- Gained hands-on experience with sensor integration and serial communication protocols.
- Worked on “**Home Automation**” project, focusing on embedded solution design and implementation.

CERTIFICATIONS

- Introduction to Self-Driving Cars – Coursera (**University of Toronto**)
- Intel® Unnati Industrial Training – 2024

ACHIEVEMENTS & EXTRA-CURRICULAR

- Finalist in Industrial Expo 2024
- Runners-Up in Fusion 2024 (College Games)
- Worked as Media Creator in GARVIT Club
- Awarded “**STARS**” Scheme Scholarship by VIT Bhopal (District Topper 12th)
- Awarded Bharat Gaurav Samman by **ESO INDIA** for being excellent performer in academics.

CO-CURRICULAR

- Qualified Internal Rounds as Team Lead in **Smart India Hackathon 2023**
- Solved 200+ Coding Problems and 4-Stars Badge in **GFG**

LANGUAGES & HOBBIES

- **Languages:** English, Hindi
- **Hobbies:** Cricket, Chess, Video Games, Travelling, Hiking