

Harsh Rathod

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Skills

- **Programming Languages:** C++, Java, Python.
 - **Web Development:** HTML, CSS, React, NodeJs.
 - **Tools and Softwares:** Windows, Git, GitHub, Vs Code.
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Education

- **VIT Bhopal University** August 2021 - May 2025
 - Bachelor of Technology in Electronics and Communication Engineering CGPA – 7.88
 - **Govt. Excellence HSS School, Manawar** July 2020 – July 2021
 - Class XII Percentage: 93%
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Projects

- **Farmer Assist Platform** | *HTML, CSS, JavaScript, Bootstrap, MongoDB*
 - Developed a web platform to help farmers access government schemes and resources efficiently.
 - Designed a responsive user interface using HTML, CSS, JavaScript, and Bootstrap.
 - Collaborated with a team to conceptualize features and ensure timely delivery.
 - Built a secure, scalable backend using MongoDB for data management.
 - Integrated user authentication and role-based access control for secure operations.
 - **Food Supply Chain Management System** | *HTML, CSS, JavaScript, React* [link](#) November 2023 – January 2024
 - Developed a web-based system to streamline food distribution, inventory, and vendor coordination.
 - Integrated real-time updates for tracking and order processing, enhancing operational efficiency.
 - Designed a user-friendly interface to improve communication between customers and suppliers.
 - Used **React Router** for dynamic routing and improved navigation between pages.
 - Integrated RESTful APIs to fetch and synchronize data from a centralized database.
 - **Energy-Savior System** | *Arduino IDE, C, IoT, Sensor Automation (S+H)* January 2022 – March 2022
 - Built a voice-controlled hardware system with Bluetooth connectivity and automated sensors for energy efficiency.
 - Recognized as the top project in the ECE branch during a project exhibition.
 - Developed algorithms for adaptive sensor-based automation to optimize energy consumption.
 - Integrated Bluetooth modules (**HC-05**) for seamless communication with the hardware system.
 - Successfully combined voice commands, automation, and sensor technologies into a compact 3-in-1 energy-saving solution.
 - **Smart IoT-Enabled Autonomous Vacuum Cleaner** | *Arduino IDE, C, IoT, Sensor Automation*
 - Designed and developed an IoT-enabled vacuum cleaner capable of surface cleaning and obstacle detection using Arduino.
 - Implemented ultrasonic sensors for precise distance measurement, enabling real-time obstacle avoidance.
 - Integrated microcontroller programming to control motor operations and cleaning functionality.
 - Optimized the system for efficient surface cleaning and smooth navigation.
 - Tested and validated the device's performance under various environmental conditions, ensuring reliability and accuracy.
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Experience

- **Member, AIEM Club**
 - Conducted and managed practical sessions, ensuring effective demonstrations and explanations of concepts.
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Achievements

- Awarded the STARS (Support the Advancement of Rural Students) Scheme at VIT Bhopal University.
 - Secured Second rank in the Alirajpur District (MP) in the high school(10th) and higher secondary (12th) examinations.
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Additional Information

- Passionate about building innovative solutions in IoT and web development.
- Open to roles in software development, embedded systems, and IoT engineering.