

SAHARSH KUMAR

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SUMMARY

Dynamic electronics and communication student with a strong passion for embedded systems and signal processing. Proven proficiency in Web-Dev, MATLAB, and C/C++ coupled with a keen eye for detail and a commitment to delivering high-quality work. Eager to contribute technical expertise and innovation to collaborative projects in telecommunications and VLSI design. A team player with excellent communication skills, a strong work ethic, and dedication to continuous learning.

PROJECTS

Hand Gloves for Sign Detection

- Technologies Used: Flex Sensors, Arduino Uno/Nano, Accelerometer, Bluetooth (HC-05), Mobile Application, GitHub
- Key Contributions:
 - Designed and developed hand gloves equipped with **flex sensors** to detect finger movements and translate them into sign language.
 - Utilized Arduino Uno/Nano to process sensor data and accelerometer to detect hand orientation and motion.
 - Implemented Bluetooth communication using HC-05 module to wirelessly transmit data from the gloves to a mobile application.
 - Developed a mobile application to receive and display the detected sign language in text format.
 - Referenced and adapted open-source projects from GitHub, integrating and modifying code to suit the project's requirements.
 - Conducted extensive testing and calibration of the sensors to ensure accurate sign detection.
 - Documented the project and shared the code on GitHub for community use and further development.

Blog App Project

- Technologies Used: MongoDB, Express.js, React, Node.js (MERN Stack)
- Key Accomplishments:
 - Developed a full-stack blog application using the MERN stack (MongoDB, Express.js, React, Node.js).
 - Implemented CRUD (Create, Read, Update, Delete) operations for managing blog posts and user interactions.
 - Designed a user-friendly interface with React, incorporating components for creating, editing, and viewing blog posts.
 - Integrated MongoDB Atlas for cloud-based database storage, ensuring data persistence, scalability, and remote access.
 - Set up Express.js for routing and handling API requests, facilitating smooth communication between the client and server.
 - Utilized Node.js to build the server-side logic, manage user authentication, and handle data processing.
 - Implemented **authentication and authorization** for secure user management and restricted access to certain features.
 - Added **responsive design** to ensure compatibility across different devices and screen sizes.
 - Applied **error handling** and validation to manage user inputs and potential issues effectively.

Personal Portfolio Website

- Technologies Used: HTML, CSS, GitHub Pages
- Key Features:
 - Developed a personal website using HTML and CSS, hosted on GitHub Pages.
 - Implemented a sub-domain strategy for integrating details of courses and projects, laying the foundation for future expansions.
 - Demonstrated proficiency in web development, aligning with a strategic approach to personal branding.

EDUCATION

Indian Institute of Information Technology Dharwad 📍

Nov 2022 – July 2026

B.Tech Electronics and Communication Engineering | CGPA: 9.26

• Key Activities:

- Active participation in all cultural events in college, including participation in CDAC for drone development.
- Actively engaged in sports activities (e.g., Badminton, Volleybol, Football), representing the college in intra-collegiate tournaments.

DAV Public School 📍

May 2020 – May 2022

Senior Secondary Education(CBSE) | X: 94.2%, XII: 91.2%

• Key Activities:

- Yoga Club Member, Active Lab Monitor.

ADDITIONAL INFORMATION

- **Technical Skills:** Python (intermediate), C/C++, Node.js, React, MongoDB, Postgre SQL, MATLAB, GitHub, Canva, PowerPoint, HTML/CSS (intermediate), JavaScript, LaTeX Overleaf, Arduino Uno/Nano, Embedded System Design.
- **Interests:** Reading Books 📖, Exploring/Adventure 🗺️, Blog Writing (intermediate) ✍️.
- **Core Competencies:**
 - Effective Communication 🗣️
 - Creativity 🎨
 - Adaptability ♻️
 - Initiative 🚀
 - Teamwork 👥
- **Languages:** English, Hindi.