

SAHIL VEDWAL

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PROFILE

A dedicated, creative and innovative engineering student with a strong foundation in development, automation, and modern technologies. Skilled in designing and building real-time, practical solutions through both academic and self-initiated projects. Known for fast learning, clear communication, and collaborative teamwork. Passionate about applying technical expertise and creative thinking to solve problems and contribute effectively in fast-paced, growth-driven environments.

EDUCATION

University of Engineering & Management , Jaipur **2022 - Present**

Bachelor of Technology in CSE

- Avg CGPA 7.6/10.00
- Last Semester CGPA 8.8/10.00

Senior Secondary -12th RBSE **2021 - 2022**

Proton Academy , Chomu (Jaipur)

- Passed with 75.40 %

Secondary - 10th RBSE **2019-2020**

Proton Academy , Chomu (Jaipur)

- Passed with 81.33 %

SKILLS

- **Languages :** C , Python , Java
- **Web Development :** HTML , CSS , React.Js, JavaScript
- **Android Development :** Flutter
- **Database & Backend:** MySQL, PHP, DBMS , Firebase
- **Tools & Platforms:** GitHub, VS Code, Postman, Figma, Excel , Power BI
- **Platforms & Cloud Services:** Windows , Kali Linux, AWS (EC2, S3), Microsoft Azure, Firebase Hosting
- **Soft Skills:** Communication , Leadership, Adaptability, Creativity , Decision Making , Problem Solving.

PROJECTS

Personal AI Chatbot – "Krishna AI" (Gemini API + Bhagavad Gita)

- Built a custom **AI chatbot** that emulates Lord Krishna's persona and responds with wisdom based on the Bhagavad Gita.
- Utilized **Google Gemini API** to generate spiritually aligned, context-aware responses using a Gita-based Q&A dataset.
- Designed for engaging human-like interaction with optional voice output and ethical response filtering.

Expense Tracker App (Flutter + Firebase)

- Created a cross-platform mobile app to help users track and categorize daily expenses.
- Integrated Firebase for user authentication and real-time database management.

IoT-Based Smart Home Automation System

- Designed a home automation system using sensors, relays, and microcontrollers.
- Enabled remote appliance control via voice commands with real-time feedback and energy-saving features. 40% Energy consumption got saved.

Face Recognition Attendance System with Instant Alerts & Spoof Detection

- Developed an **AI-based** attendance system using **OpenCV** and **deeplearning libraries** for facial recognition.
- Added spoof detection to ensure authenticity and integrated **Twilio API** to send **instant SMS notifications** to parents. Achieved 95% accuracy and reduced proxy attendance cases by 40%.

Student Management System – Python

- Developed a desktop-based system to manage student records, including enrollment, course registration, and grade tracking.
- Implemented data validation, search, and update features for seamless academic record management.

Student Management System – Web Based

- Built a responsive web platform using **HTML**, **CSS**, **Bootstrap**, **PHP**, and **MySQL**.
- Enabled secure admin functionalities such as student registration, data updates, course assignments, and authentication.

INTERNSHIPS

Cybersecurity Virtual Internship – AICTE & EduSkills

Remote · Jan 2025 – Mar 2025 · Supported by Palo Alto Networks

- Successfully completed a **10-week government-certified internship under AICTE's National Internship Portal**.
- Gained hands-on exposure to core cybersecurity concepts, including network security, threat detection, firewalls, and secure system architecture.
- Participated in virtual labs, real-world use cases, and interactive modules supported by Palo Alto Networks.
- Developed a strong understanding of modern security practices and tools used in the cybersecurity industry.
- Learned training structure and lab-based cybersecurity education models through industry-led simulations.

CERTIFICATIONS

- Introduction to Operating Systems – NPTEL, **IIT Madras**
- The Joy of Computing Using Python – NPTEL, **IIT Madras**
- Big Data Computing – NPTEL, **IIT Kanpur**
- Developing Soft Skills and Personality – NPTEL, **IIT Kanpur**
- Foundations of Cybersecurity – **Coursera, offered by Google**
- Generative AI Fundamentals – **IBM**

LANGUAGES

- Hindi
- English