

## Akash Shelar

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### EDUCATION

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**Sanjivani College of Engineering, , Kopergaon**  
B.Tech in Electronics and Computer Engineering

Dec 2021 - May 2025  
GPA: 2.5

### SKILLS

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Functional : Leadership, Team Work, Project Management

Technical : Arduino IDE, Embedded C / C++, Python, Cloud & IoT, Robotics & Automation, Sensors & Actuators, 3D Printer Operation, Laser Cutting Machine Handling, CNC Machine Operating, Microcontrollers & Boards, TCP/IP Protocols, NAT, Wireshark, Nmap, Cisco Packet Tracer

### PROFESSIONAL EXPERIENCE

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**Kodacy -**  
Intern

Sep 2023 - Oct 2023

- Acquired hands-on knowledge of the complete lifecycle of robotics projects, including design, construction, and operation of robots.
- Gained practical experience in robot programming and virtual simulation to test and optimize robotic functions.
- Studied various robotics lessons and project methodologies to build a strong foundation in robotics engineering.

**Defence Guru Cyber Education Institute -**  
Intern

Feb 2025 - Present

- Conducted comprehensive footprinting, network scanning, and service enumeration using tools like Nmap, Netdiscover, and Wireshark to identify and analyze network vulnerabilities.
- Executed advanced network attacks including ARP poisoning (Ettercap), DDoS simulation (Hping3), and Windows/Android exploitation, enhancing practical understanding of cyber threats.
- Performed malware analysis, generated detailed security reports, and gained hands-on experience with firewall concepts and proxy server configurations to improve network defense strategies.

### PROJECTS

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#### Automatic Shree Hanuman Chalisa

- Developed a time-scheduled devotional audio playback system using ESP8266, DS3231 RTC module, and relay control to automate amplifier operation in temple speakers.
- Programmed precise timing to power ON the amplifier at 5:58 AM and 5:58 PM, start Hanuman Chalisa playback at 6:00 AM/PM, and power OFF the amplifier at 6:11 AM/PM for seamless daily operation.
- Integrated DFPlayer Mini MP3 module with Wi-Fi enabled ESP8266 to ensure remote monitoring and maintenance-free performance, enhancing spiritual ambience with minimal manual effort.

#### Smart Biometric Attendance System with Cloud Integration

- Developed an automated attendance system using fingerprint biometric authentication to accurately record student check-in and check-out times, eliminating proxy attendance issues.
- Integrated the fingerprint sensor with ESP8266 Wi-Fi module to send real-time attendance data to Google Sheets, enabling remote monitoring and management by teachers.
- Designed for easy installation at classroom entrances to ensure quick, contactless, and secure attendance marking with enhanced accuracy.

#### Smart Grocery Trolley

- Integrated Remote Access Control feature, allowing the trolley to be guided remotely via smartphone—ideal for elderly users or physically challenged individuals who face difficulty pushing heavy trolleys in malls.
- Implemented a Smart Billing System using laser scanner and thermal printer, enabling real-time product scanning, cart management via mobile app, and automated receipt generation, significantly reducing checkout time.

### ACHIEVEMENTS

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- Secured 13th Rank in Robocon India 2024 as Vice-Captain of Team Sphinx, a national-level robotics competition organized by Doordarshan, competing among 100+ engineering teams nationwide.
- Contributed to robot design, wireless control system integration, and strategy planning under strict timelines and real-world problem-solving scenarios.