

# Mayur Shantaram Patil

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## PROFESSIONAL SUMMARY

Electronics & Telecommunication Engineering graduate with strong foundation in embedded systems, real-time hardware interfacing, and sensor-based automation. Experienced with Raspberry Pi, Arduino, and ESP32 boards, with practical knowledge of UART, SPI, I2C, and GPIO protocols. Developed and deployed real-world safety and IoT solutions using Python and Embedded C. Fast learner with leadership in national-level competitions, eager to contribute to embedded product development and hardware innovation.

## EDUCATION

<b>Bachelor of Engineering, SPPU</b> Electronics & Telecommunication	CGPA:7.88/10	2021-2025
<b>HSC, Maharashtra State Board</b>	Percentage: 85.50%	2020 - 2021
<b>SSC, Maharashtra State Board</b>	Percentage: 76.60%	2018 - 2019

## SKILLS

<b>Embedded Systems &amp; Hardware</b>	Raspberry PI, PCB Design, GPIO, Arduino, UART, SPI, I2C protocols, ADC.
<b>Programming Skills</b>	Python, Java, PHP, SQL, JavaScript, Embedded C.
<b>Technical Tools</b>	Visual Studio Code, KiCAD, Proteus, Multisim, Circuit Designer.
<b>Soft Skills</b>	Communication, Teamwork, Analytical Thinking, Leadership Quality.
<b>Languages</b>	English, Hindi, Marathi.

## INTERNSHIP

<b>NUTSHELL INFOTECH PVT. LTD</b> <i>IoT Developer Intern</i>	Nashik, MH Oct 23 - Jan 24
<ul style="list-style-type: none"><li>Developed an automated plastic bottle sorting system using <b>Raspberry Pi, camera module, and Python (OpenCV)</b> to detect and classify bottles based on visual characteristics.</li><li>Interfaced sensors and actuators via <b>GPIO</b>, implementing real-time object detection with <b>edge-based AI logic</b> for fast response and offline operation.</li><li>Designed a local dashboard for real-time visualization and integrated <b>Firebase</b> for cloud data logging and remote monitoring.</li></ul>	

## PROJECTS

**Advanced Vehicle Safety System (AVSS):** Designed and implemented a comprehensive safety system using Raspberry Pi and microcontrollers. Features include driver authentication (fingerprint), drowsiness detection, accident alerting, and alcohol sensing. Integrated sensors using **UART, SPI, and I2C**, programmed in **Embedded C and Python**, with real-time data updates.

**IOT based Hostel Access and Attendance System:** A smart IoT-based solution for secure hostel access and automated attendance, enhancing convenience and management efficiency and Secure authentication and automatic attendance system using **RFID & network-based logging**, enhancing campus security.

**AI BASED DRONE FOR HUMAN DETECTION WITH PAYLOAD DROPPING:** I developed a Human Detection System using OpenCV and embedded systems, winning our college Hackathon and presenting it at the Avishkar Zonal Competition (Key Skills: Aerodynamics, Drone technology, **OpenCV, Python**).

## EXTRA-CURRICULAR ACTIVITIES

- Represented my Project AVSS at Nationals in Bhopal at **National Level YUVA** conclave with YI (Young Indians) and CII across TOP 5 participants from India.

- Currently **Campus Ambassador of KPIT** as a student representator for Institute.
- Worked as a post of **Academic Secretary** in TE.
- Participated in **University Level AVISHKAR** in year 2024-25
- Organized various technical and non-technical events in Institute.

## CERTIFICATIONS & ACHIVEMENTS

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• Avishkar University Level Competition - Avishkar	Dec 2024
• Fundamental of Java Programming - Cousera	Oct 2023
• AWS - Cloud Essentials Knowledge - AWS	Jan 2024
• Data Analysis Using Python by IBM - Cousera	Nov 2023
• Avishkar Zonal Level Competition - Avishkar	Oct 2023
• Communication Skill development - Infosys Springboard	Sep 2023
• Learning JAVA 11 - LinkedIn Learning	Aug 2024
• Cybersecurity Job Simulation - Mastercard	Jul 2024

