Tushar Chaudhari

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Professional Summary

Electronics and Telecommunication Engineering student with internship experience in embedded systems and AI. Skilled in C, C++, Python, circuit design, and microcontroller programming. Adept at creating innovative hardware-software solutions, with a passion for real-world impact.

Education

Year	Degree/Certificate	Institute/Board	CGPA/%
2026	B.Tech in E&TC	SGGSIE&T, Nanded	7.1/10.0
2022	HSC (Class XII)	Shri Shivaji Junior Science College, Darwha	69.00%
2020	SSC (Class X)	Shri Shivaji High School, Darwha	81.00%

Experience

Acmegrade Pvt. Ltd. | Embedded System Intern | Remote | *Certificate* *May 2025 – July 2025*

- Engineered and developed embedded system prototypes using C, C++, and RTOS concepts for real-time industrial applications.
- Collaborated on integrating software and hardware modules to build reliable, scalable solutions.
- Prepared technical documentation outlining system architecture, integration logic, and performance outcomes.

Codec Technologies Pvt. Ltd. | Artificial Intelligence Intern | Remote | *Certificate* *May 2025 – June 2025*

- Designed and implemented predictive machine learning models using Python to analyze telecom user behavior.
- Enhanced model reliability by performing feature selection, normalization, and dataset balancing techniques.
- Applied supervised learning algorithms, including logistic regression, to classify and forecast customer churn.

Projects

Smart Home Automation System | *ESP32, PIR Motion Sensor, Relay, LCD Display* |*GitHub*

- Built a smart home system using ESP32, enabling automated appliance control and live LCD feedback, improving usability.

Telecom Customer Churn Prediction | *Python, XGBoost, Scikit-learn, Streamlit* | *Live*

- Built a predictive model using XGBoost with over 96% accuracy, employing SMOTE for handling class imbalance and advanced feature engineering for enhanced performance.

Easy-to-Use PDF Handling Tools | *Python, Streamlit, PyPDF2* | *Live*

- Developed a Python application that reduced manual PDF processing time by over 70%, enabling batch operations like merging, encryption, and text/image extraction.

IoT-Based Bidirectional Visitor Counter | *C++, Arduino, IR Sensors* | *GitHub*

- Developed a system using an Arduino microcontroller and IR sensors to accurately detect and count human movement in both directions through a passage.

Technical Skills

Languages: C, C++, Python, Assembly, HTML/CSS.
Core Concepts: Embedded Systems, DSA, Operating Systems, RTOS, Debugging, Firmware Development.
Development Tools: VS Code, MATLAB, Keil uVision5, LTspice, KiCad, GitHub, Proteus.
Soft Skills: Problem Solving, Time Management, Project Management, Teamwork, Adaptability.

Certifications & Achievements

- **Embedded Systems** | *Certificate*
- **Supervised Machine Learning** | *Certificate*
- **Hands-On Python Machine Learning** | *Certificate*
- **Python for Beginners** | *Certificate*

Positions of Responsibility

Coordinator, FSDC (Dance Club), SGGSIE&T *Jun 2024 – May 2025*

- Led choreography sessions for a team of 15+ members, improving performance quality and team cohesion.

Decoration Lead, Zenith (Sports Fest) & UTSAV (Cultural Fest), SGGSIE&T *Jul 2023 – May 2024*

- Managed and executed event setup and thematic decoration for major college festivals.

Hobbies & Interests

- Coding, Sports, Dancing, Choreography, Reading, Watching Movies, Listening to Songs, and Video Editing