

Sumit Shingane

Professional Summary

Results-driven Third-year B.Tech Electronics & Telecommunication student with a robust technical foundation in Python, Machine Learning, and Embedded IoT systems. Proven track record in designing Generative AI workflows, managing cloud integrations, and leading high-profile technical initiatives. Academic researcher with peer-reviewed work accepted at prestigious international IEEE/EI-indexed conferences. Adept at bridging the gap between technical innovation, firmware development, and institutional management, with a strong focus on delivering scalable software solutions.

Technical Skills

Languages	Python, C/C++ (Embedded Systems), Embedded C, SQL
Frameworks	Flask, Django, RESTful APIs
AI & Data	Vertex AI, Machine Learning, TensorFlow, PyTorch, NumPy, Pandas, Power BI, Tableau
IoT & Hardware	ESP32/ESP8266, ESP32-S3-BOX-3, Arduino Nano, Bluetooth RF transceivers, Sensors
Protocols	MQTT, HTTP, I2C, SPI, UART, WiFi, Bluetooth, BLE
Cloud & Tools	Cloud Computing, Edge Computing, IoT Cloud Integration, Git, Agile Methodologies

Work Experience

- Aug 2025 – **Python Development Intern, Infotech Solution**
Oct 2025
- Developed robust backend systems using **Python, Flask, and Django** to streamline automation projects, improving operational efficiency.
 - Built and optimized **RESTful APIs** and seamlessly integrated relational databases for client-facing software solutions.
- Jul 2025 – **Software Development Intern, Snestron Systems Private Limited**
Aug 2025
- Engineered a scalable project management tool from scratch for precise internal task tracking, resource management, and workflow optimization.
 - Collaborated in **Agile sprint cycles**, contributing to feature design, comprehensive code reviews, and active troubleshooting.
- Apr 2025 – **Data Analyst Intern, Unified Mentor Pvt. Ltd.**
Jul 2025
- Cleaned, preprocessed, and analyzed complex datasets utilizing **Pandas and NumPy** to uncover actionable business metrics.
 - Built interactive data visualizations using **Power BI and Tableau** to communicate data-driven insights effectively to stakeholders.
- Mar 2025 – **Machine Learning Intern, Feynn Lab**
May 2025
- Developed AI service prototypes and engineered **Machine Learning** models (**TensorFlow, PyTorch**) to analyze experimental data.
 - Conducted advanced market segmentation analysis leveraging data analytics to guide strategic product placement.

Research & Publications

- 2026 **"Enhancing Patient Safety in Rural PHCs: A Low-Cost, Internet-Independent Monitoring System"**
Accepted for Oral Presentation & Publication, 11th International Conference on Information Science, Computer Technology and Transportation (ISCTTT 2026), Kunming, China. (To be submitted for indexing in EI Compendex, Scopus).
"Forest CO2 Monitoring System Using IoT" — Published on ResearchGate.

Projects & Portfolio

- AI Desktop Pet Robot** Built using the ESP32-S3-BOX-3 AI kit, integrating localized hardware behavior with smart interactions.
- Smart Health Monitor** Developed a real-time **IoT-enabled** health tracking system integrating edge sensor modules with a centralized cloud backend.
- Fertilizer Web App** Built a full-stack predictive web application leveraging **Python, Flask, and SQLite**.

Education

- Exp. June 2028 **B.Tech in Electronics & Telecommunication Engineering**, *Swaminarayan Siddhanta Institute Of Technology (SSIT)*, Nagpur
- Senior Secondary (Class XII) — Science (72.00%)**, *Sita Ramji Ganorkar Jr College Of Science*, Amravati
- Higher Secondary (Class X) — SSC (79.00%)**, *Nirmala High School*, Amravati

Leadership & Activities

- 2025 – Present **Technical Head — EXTC / ETC Forum, SSIT, Nagpur**
- Organized and led the Technowledge 2K26 HackDay event in official collaboration with Major League Hacking (MLH).
 - Served as the primary organizer for the Circuit Design Competition 2026.
- 2026 **Campus Mantri (Campus Representative)**, *GeeksforGeeks*
- Represented the student technical body, coordinating directly with GeeksforGeeks community management to drive campus-wide technical engagement and workshops.
- Mar 2025 – Apr 2025 **Internshala Student Partner**, *Internshala*
- Spearheaded professional development campaigns, impacting peer career readiness.

Certifications & Honors

- 2025 **State-Level Contender:** Competed in the MahaKaushalya Maharashtra State Skills Competition for Software Application Development.
- Certifications **Machine Learning Professional** (Advanced predictive modeling)
Data Analytics Certification (Visualization via Power BI, Tableau, and Python)
Entrepreneurship Foundation (Startup ideation via the Wadhwani Foundation)

Languages

- Marathi** Native
- Hindi** B2 - Professional
- English** B1 - Professional