

SONWANE SANKET ANKUSH

+918468902367 | sanketsonwane512@gmail.com | linkedin.com/in/sanket-sonwane | github.com/sanket-sonwane

SUMMARY

AI Engineer with experience building production-grade Agentic AI, LLM, and RAG systems through research and industry internships. Experienced in multi-agent workflows, RAG, backend engineering, and LLM orchestration, with hands-on experience in SLM fine-tuning and QLoRA.

EXPERIENCE

Agentic AI Engineer Intern - EPIC Technology Research Private Limited, Pune May 2026 – July 2026

- Built an Agentic AI-powered Municipal Asset Intelligence Copilot using intent-aware query routing, hybrid RAG, PostgreSQL, pgvector, and on-prem LLM orchestration, enabling accurate multi-step reasoning across millions of asset records.

Python Developer Intern - ARAI(Automotive Research Association of India), Pune Dec 2025 – Feb 2026

- Built and deployed a production-ready Python automation pipeline using the ZEISS INSPECT API, achieving a 99.94% reduction in processing time (10 hours to 10 seconds) by automating marker association, validation, and quality checks for industrial photogrammetry.

Research Intern - Network Security & 5G Systems - COEP Tech(College Of Engineering Pune Technological University), Pune May 2025 – July 2025

- Developed a lightweight SDN-based rogue node detection framework for 5G MEC, achieving 98% accuracy, <3% CPU usage, and <50 ms delay; validated through Python, Mininet, and Ryu-based simulations, resulting in a paper submission to AEUE (Q2 Journal).

KEY PROJECTS

TattvaQuest - Autonomous Knowledge Retrieval Agent - GitHub April 2026

- Built an Agentic RAG system using LlamaIndex featuring document chunking, embedding-based retrieval, hybrid search, query routing, tool calling, contextual reasoning, and retrieval quality optimization for multi-document question answering.

QA-Forge - AI-native multi-agent auditing platform - GitHub March 2026

- Built an Agentic AI multi-agent platform using LangGraph and FastAPI supporting agent collaboration, task orchestration, tool execution, API validation, adversarial testing, and automated engineering reports.

Class-Node - Real-time Quiz & Classroom Interaction System - GitHub Jan 2025

- Developed a scalable real-time quiz platform supporting 100+ weekly users with synchronized multiplayer participation, AI-generated quizzes, live analytics dashboards, and scheduled assessments using React, TypeScript, Node.js, and Supabase.

EDUCATION

BE Computer Engineering, SPPU (2024–2027) – SGPA: 9.14

Diploma in Information Technology, AISSMS POLYTECHNIC PUNE (2021–2024): 85.13

SKILLS

Programming: Python, Java, C++, JavaScript, SQL

AI/LLM: Agentic AI, RAG, Multi-Agent Systems, LangGraph, LlamaIndex, Hugging Face, LoRA, QLoRA, PEFT, MCP, Tool Calling, SLM Fine Tuning, LLM Evaluation.

Cloud & DevOps: AWS (Bedrock), Docker, Kubernetes, CI/CD, Git, GitHub.

Web & Backend: Node.js, REST APIs, React, FastAPI, Supabase, PostgreSQL, pgvector.

ACHIEVEMENTS / PUBLICATIONS

- Invited to present at NVIDIA's Workshop:** Presented AI-powered cybersecurity project at NVIDIA Nemotron Workshop in front of AI engineers, NVIDIA teams, and industry professionals.
- Training and Placement Coordinator (TPC) Head, PVPIT** - Led placement coordination and student engagement.
- HackerRank Campus Crew Lead** - representing and leading campus-wide coding, community, and technical initiatives. Host 3+ State Level Events and 1 international.
- Submitted Research Paper at Q2 Journal:** "Lightweight Trust-Based Detection of Rogue Nodes in MEC".