

Pavan Subramanyam Sai Kumar Dangeti

AI/ML Engineer Intern at Sacha Global · Final-year B.Tech, Pragati University

I build services, ML models and LLM systems, and publish how each one was measured, including when the simple baseline wins.

pssaikumardangeti@gmail.com · linkedin.com/in/pavan-subramanyam-sai-kumar-dangeti · github.com/pavan-dangeti · dangeti-portfolio.vercel.app · India, open to relocation and remote

Experience

- AI/ML Engineer Intern, Sacha Global Private Limited

Jun 2026 to present

 - Cut manual HR verification effort by an estimated 98%, from about 250 hours to under 3 per 5,000-record cycle, by building an OCR-based verification backend in FastAPI and Python.
 - Processed 5,000–7,000 records concurrently across 5–7 hierarchies under super-admin access, after 1,000 under manager access, through JWT-authenticated REST APIs over PostgreSQL schemas built for tenant isolation.
- Core Technical Architect / Team Lead, Google Solution Challenge 2025

Jan 2025 to Mar 2025

 - Reached the national Top 100 and the on-campus round in Chandigarh by leading the architecture and development of an AI-enhanced skill-discovery and career-path recommendation platform.
- AI Training & Software Development Contributor, Outlier

2025 to 2026

 - Debugged 40–50 code and logic issues across 60+ Python LLM outputs by evaluating each output for correctness before it fed model training.
 - Contributed to training cycles for 20+ models by evaluating and correcting model-written code in Java, Python and C++.

Selected projects

- FulfillOps** (Java 21, Spring Boot 4, PostgreSQL 17): Eliminated overselling under load, with exactly 100 of 1,000 concurrent orders confirmed for 100 units (a check-then-write baseline accepted 921–969), by using a conditional UPDATE backed by a CHECK constraint. [GitHub](#)
- Conveyor** (Go, PostgreSQL, TLA+): Applied every job's effect at most once, with 60 of 60 jobs completed and zero fencing violations under crashes, pauses, a Postgres restart and dropped connections, by guarding writes with fencing tokens.
- Chief-of-Staff AI** (Python, Gemini, OpenAI-compatible APIs): Extracted commitments at 0.981 item F1 on 80 held-out synthetic messages (0.734 on a harder outsider-written set) by verifying every LLM output against an exact quote. [GitHub](#)
- ScamShield** (Python, PyTorch, Transformers): Raised scam-detection F1 from 0.908 to 0.998 on a largely synthetic 1,554-message validation set by fine-tuning XLM-R with adversarial augmentation. [GitHub](#)

Skills

Languages	Python; Java; Go; TypeScript and JavaScript; SQL; C and C++; HTML and CSS
Backend and systems	FastAPI services; Spring Boot microservices; Sagas, outboxes and fencing tokens; Real-time sync with CRDTs over WebSocket; React and Tailwind CSS front ends
ML and LLM	Machine learning with scikit-learn and LightGBM; Deep learning with PyTorch; NLP: fine-tuning multilingual transformers; LLM extraction and evaluation; Retrieval with verified citations; Text-to-SQL with query validation; Recommendation and ranking
Data and infrastructure	PostgreSQL; SQLite; Redis; Docker and Docker Compose; Model serving on CPU with ONNX
Tools	CI/CD with GitHub Actions; Testing with Playwright, pytest and property tests; TLA+ model checking
Core CS	Data structures and algorithms (LeetCode 560+); REST API design; System design and distributed systems (FulfillOps, Conveyor); OOP (Java); JWT authentication (internship)

Education

- Pragati University:** B.Tech in Electronics and Communication Engineering, 2023–2027, CGPA 7.3/10

Achievements and certifications

- Google Solution Challenge 2025: top 100 teams nationally; invited to the on-campus round in Chandigarh
- Runner-up, xto10x Hackathon by IIT Ropar
- Shortlisted, Hack2skill Hackathon
- LeetCode: 560+ problems solved, contest rating 1,503
- HackerRank: 5-star in Java, Python, SQL, C and C++
- Certifications: Salesforce Certified Agentforce Specialist (Oct 2025); Oracle Data Platform 2025 Certified Foundations Associate (Nov 2025); SAP Certified – Back-End Developer – ABAP Cloud (Oct 2026); GitHub Copilot (Microsoft, Oct 2026)