Sarthak Sethi

San Jose, CA — 925-895-0285 — sarthakluv@gmail.com — linkedin.com/in/sarsethi — github.com/1300Sarthak — Portfolio Site

Education

San Jose State University   **Expected Graduation: Dec 2026**
Bachelor's of Science in Computer Science and Applied Math
Awards: *Dean's Scholar (2x) & 5x Hackathon Winner*   —   ***Course Work:*** *DSA, Databases, Machine Learning, OOP*

Skills

Languages	Python, Java, Typescript, JavaScript	**GenAI**	LLMs, Agentic AI, Fine-tuning (LoRA)
Frontend	React, Next.js, HTML/CSS	**GenAI Infra**	RAG, MCP, Vector databases (Pinecone)
Backend	Springboot, Django, Flask, NGINX	**Cloud**	AWS (Lambda, EC2, S3), Kubernetes, Docker
Databases	SQL(PostgreSQL, Oracle), NoSQL(MongoDB)	**DevOps/Tools**	CI/CD, Git, Postman, Jira, Agile

Experience

Software Engineering Intern   **May 2025 – Aug 2025**
Gilead Sciences   *Foster City, CA*
– Built MCP AI agent on a fine-tuned LLM with intranet integration, reducing IAM access tickets by 37% through real-time status queries and automated alerts.
– Migrated 20K+ records into Oracle via Python ETL; exposed a secure REST API and delivered Power BI dashboards with row-level security, cutting reporting cycles 60%.
– Automated UI and database consistency checks, enforcing CI security gates that stopped 15+ high-risk defects

Data Analytics Lead   **Feb 2025 – May 2025**
Mozilla RCC@SJSU   *San Jose, CA*
– Led data analytics initiatives across 3+ projects, building Power BI dashboards and Tableau visualizations to track key performance indicators (KPIs) for student engagement and technical training outcomes.
– Built predictive models in Python (scikit-learn) to forecast event attendance with 85% accuracy using regression and classification.
– Designed analytics workflows on 10K+ records, extracting insights that improved program efficiency and decision-making.

Data Engineering Intern   **Jan 2025 – Mar 2025**
Cequence Security   *Santa Clara, CA*
– Engineered REST-traffic analytics pipeline (Python + SQL) with 1h/24h aggregations & alerts, improving system efficiency 15%.
– Integrated Open Policy Agent (OPA) with NGINX, enforcing API access control via Rego policy-as-code while keeping P99 latency under 5ms.
– Automated anomaly detection of REST API traffic in CI/CD, reducing mean time to detection by 45%.

Machine Learning Research Assistant   **Jan 2025 – Present**
MICoSys Lab @SJSU   *San Jose, CA*
– Researched adversarial attacks on LLMs, designing jailbreak tests pre/post fine-tuning to measure robustness/aligen.
– Fine-tuned LLaMA models with LoRA adapters, boosting performance on novel datasets and analyzing generalization.
– Explored unlearning methods by altering LoRA adapters and analyzing delta weights to interpret model representations.

Projects

Co-Founder - Machine Learning Based Smart Data Analyst and Visualization SaaS   **Link**
– Built full-stack AI analytics SaaS (LangChain, React, Supabase, AWS) for CSV queries, SQL generation, and instant insights, deploying at scale with secure infra, sub-second response, and multi-user concurrency.

RAG/MCP Based Government Chat-bot — 1st Place Winner at Microsoft Azure Hackathon   **Link**
– Developed government AI assistant (RAG + MCP) with location-aware form autofill and query handling, integrating secure pipelines and real-time inference to streamline citizen service workflows at hackathon scale.

Agentic AI-Powered MCP Agent Competitive Intelligence Task Force — 3rd Place Winner at MCP Hackathon   **Link**
– Built full-stack multi-agent AI platform with Bright Data MCP and LlamaIndex to automate research, generate department-specific analyses, and deliver executive-ready insights through real-time dashboards.