

HASIR SAYED

Data Science Student | AI/ML Engineering & Applied Research

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🔗 Portfolio 🔄 Sayyedhash888

Summary

Data science student with strong foundations in statistical analysis, machine learning, and Python-based data pipelines, paired with hands-on experience in LLM safety and applied AI research. Skilled in building safeguards for AI systems (PII redaction, prompt-injection defenses, human-in-the-loop review), fine-tuning small language models, and conducting reproducible AI benchmarking research. Published researcher on SLM performance analysis, with a track record of translating data-driven insights into deployed systems.

Experience

AI Safety & Data Pipeline Engineer, *Janitor AI*

Remote

- **Engineered & Deployed Autonomous Tool:** Built a decoupled, high-throughput data science tool on Vercel to automate complex data cleaning and preprocessing pipelines.
- **Implemented BYOK Architecture:** Designed a Bring Your Own Key (BYOK) framework for secure, user-managed API key handling across the platform.
- **Architected Security Safeguards:** Developed real-time PII detection/redaction pipelines and engineered guardrails against prompt injection and jailbreak exploits.
- **Designed HITL & Agent Workflows:** Built Human-in-the-Loop (HITL) review systems and a specialized 3-agent orchestration workflow for multi-stage evaluation and automated task execution.
- **Optimized LLM Performance:** Refined conversational memory and context-management systems for long-running interactions, utilizing prompt engineering and adversarial testing to ensure safety and quality.
- **Live Project:** janitorai-beta.vercel.app 🌐

AI & Agentic Systems Developer, *Personal Portfolio Platform*

Remote

- Engineered and deployed a personal portfolio platform utilizing agentic AI architecture to showcase projects and capabilities.
- Implemented custom API integrations and Model Context Protocol (MCP) to enable skill automation and extended functionality.
- Architected a specialized 3-agent workflow to optimize task distribution and enable autonomous execution.

Live Project: hasirportfolio.netlify.app/scroll 🌐 Repository: github.com/Sayyedhash888/memory-janitor 🌐 agent

Education

BS in Data Science, *Indian Institute of Technology (IIT) Madras (Online)*

2027

- Pursuing a rigorous data science curriculum focused on advanced Python development, machine learning algorithms, and predictive modeling.
- Built a strong foundation in statistical analysis and structured data pipelines to translate complex datasets into actionable insights.

Technical Skills

Languages & Libraries

Python, NumPy, Pandas, Matplotlib, Scikit-Learn, SQL

Tools

Git, VS Code, Ollama, API Integration

AI/ML

Machine Learning, Deep Learning, Predictive Modeling, Large Language Models (LLMs), Small Language Model (SLM) Fine-Tuning, Retrieval-Augmented Generation (RAG), Prompt Engineering, AI Safety, AI System Design

Projects

Personal Small Language Model (SLM) Fine-Tuning [🔗](https://github.com/Sayyedhash888/H-Ai), *GitHub: github.com/Sayyedhash888/H-Ai*

- Fine-tuned a Qwen 2.5 (0.5B) language model on a custom, domain-specific dataset using supervised fine-tuning (SFT).
- Collected, cleaned, deduplicated, and structured training data to improve domain adaptation.
- Tuned training hyperparameters and monitored performance metrics across iterations to improve convergence.
- Evaluated outputs for accuracy, consistency, and instruction-following against baseline responses.
- Deployed the fine-tuned model into a local inference pipeline for privacy-focused, offline use.
- Applied model quantization and inference optimization for efficient deployment on consumer-grade hardware.
- Iterated on prompt design and dataset refinement to boost output quality.

Client Portfolio Website – Business Operations & MIS Leader [🔗](https://syedsabiya.netlify.app), *Live Project: syedsabiya.netlify.app*

- Built an AI-powered portfolio website for a Business Operations & MIS professional, with an AI assistant that answers recruiter questions using structured portfolio knowledge.
- Designed an executive-style interface highlighting leadership experience, projects, and certifications to drive recruiter engagement.

Client Portfolio Website – Professional Portfolio [🔗](https://syedzahid.netlify.app), *Live Project: syedzahid.netlify.app*

- Designed and developed a customized, responsive portfolio website tailored to the client's professional background and career goals.
- Integrated dynamic content sections for projects, experience, and certifications, with an emphasis on branding and maintainability.

Publications

Small Language Model (SLM) Integration and Performance Analysis, *Zenodo*

- Authored and published research on Small Language Model (SLM) integration and performance analysis.
- Conducted comparative evaluation of lightweight language models across performance, efficiency, and deployment trade-offs.
- Designed a benchmarking methodology and analyzed inference speed, resource utilization, and model capabilities.
- Documented findings with reproducible experiments and technical analysis.
- Technologies: Python, LLMs, SLMs, AI Benchmarking, Data Analysis, Research Methodology, Technical Writing.

Publication: zenodo.org/records/21396947 [🔗](#)