

SAMAY U. SHETTY

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CS Grad Student and AI/ML Engineer with production experience leading teams to build RAG-based agentic systems and research expertise in disagreement learning (published at ACL). Shipped LLM-powered financial assistant serving 500+ daily queries and published research at ACL. Seeking Summer 2026 internship/co-op to innovate in both research and production

EDUCATION

Rochester Institute of Technology , Rochester, NY	Expected Dec 2026
Master of Science, Computer Science — GPA: 3.8/4.0	
<i>Relevant Coursework:</i> Applications of Generative AI, Quantum Machine Learning, Machine Learning, Big Data Analytics	
University of Mumbai , Mumbai, India	Aug 2024
Bachelor of Engineering, Electronics & Telecommunication — Minor in Data Science — GPA: 9.4/10	

TECHNICAL SKILLS

ML/AI: NLP, Deep Learning, LLMs, RAG, PyTorch, TensorFlow,

Languages: Python, C++, Java, SQL

MLOps: Docker, Kubernetes, AWS (EC2, S3, Lambda), FastAPI, Redis, CI/CD (GitHub Actions), WandB

Data & Vector Stores: ChromaDB, Pinecone, MongoDB, PostgreSQL, ETL Pipelines

EXPERIENCE

AI Engineering Intern — <i>Creating Wings Co. – Remote, Connecticut</i>	Nov 2025 – Present
• Led a team of 5 in developing a personalized AI financial assistant helping women navigate finance, retirement, and education decisions, serving 500+ daily queries with privacy-first user metadata collection for contextual, tailored guidance through FastAPI backend and React frontend (99.5% uptime)	
• Optimized semantic search pipeline using ChromaDB vector store and custom retrieval strategies, achieving 66% latency reduction (3.2s → 1.1s) and 35% improvement in answer relevance through hybrid search and reranking	
• Deployed scalable infrastructure on AWS (EC2 + ALB) with Redis caching layer, OAuth2 authentication, and monitoring dashboards, reducing cold-start latency by 40%	
ML Research Assistant — <i>Lab of Population Intelligence, RIT – Rochester, NY</i>	May 2025 – Aug 2025
• Advanced disagreement-aware NLP by enhancing DisCo neural architecture to capture diverse annotator perspectives, integrating annotator metadata embeddings with cross attention and custom loss reweighting to improve label distribution predictions by 39% across 4 benchmark datasets	
• Optimized distributed training workflows on GPU clusters, reducing computational costs by 45% through profiling, bottleneck analysis, and resource allocation strategies	
• Co-authored paper accepted to ACL NLPerspectives Workshop 2025 (presented at EMNLP), open-sourcing reproducible codebase (github.com/Homan-Lab/lewid3) and contributing to Disagreement Learning research	

PROJECTS

Savora AI – Restaurant Operations Intelligence Platform — *Python, Graph RAG, LLMs, SQLite*
github.com/Samay-Shettyyyy/Savora_AI

- Eliminated manual spreadsheet analysis for restaurant managers through AI-powered natural language queries over sales, inventory, and scheduling data, validated with 10+ stakeholder interviews across US and Asia
- Built agentic RAG system connecting disparate data sources using knowledge graphs and LLM orchestration, achieving 92% query accuracy with sub-200ms response times
- Designed multi-modal ETL pipeline ingesting 10K+ daily transactions into normalized SQLite warehouse

MatSAR – Polarimetric SAR Image Classification System — *C++, MATLAB, Computer Vision, CUDA*
[Demo Video](#)

- Extended industry-standard PolSARPro software by adding ML-based terrain classification capability, achieving superior accuracy through custom feature extraction from polarimetric decompositions of satellite imagery
- Accelerated inference pipeline with CUDA GPU optimization in MATLAB, achieving **35% reduction** in processing time for multi-gigabyte satellite image classification tasks

PUBLICATIONS

- Sawkar, M., Shetty, S.U., et al. (2025). “[LPI-RIT at LeWiDi-2025: Improving Distributional Predictions via Metadata and Loss Reweighting with DisCo.](#)” *ACL NLPerspectives Workshop (EMNLP 2025)*
- Shetty, S.U., et al. (2025). “[MatSAR: A Comprehensive Machine Learning Approach for PolSAR Data Processing.](#)” *International Journal of Computer Applications*