

Ashesh Kaji

ML/AI Systems Engineer & Technical Founder

New York, NY · ashesh8500@gmail.com · +1 (858) 308-6586 · asheshkaji.com · github.com/ashesh8500

EXPERIENCE

Technical Cofounder — *AuditLayer*

2026–Present

- Own technical development of a competitive-intelligence product that turns public social and competitor data into evidence-backed audits for wellness creators.
- Built the production Next.js, Supabase/Postgres, and Python worker architecture: authenticated intake, queued agent runs, event logs, private report storage, billing state, and founder review controls.
- Separated deterministic orchestration from agentic research; implemented bounded execution, source provenance, account isolation, failure states, and reproducible report delivery.

Consulting AI Engineer / Artificial Intelligence Engineer — *SageX Global*

Sep 2024–Present

- Built production-oriented LLM/SLM, semantic retrieval, and multimodal data workflows spanning data transformation, model adaptation, evaluation, and deployment.
- Designed fine-tuning and data-lifecycle pipelines using Python, PyTorch/scikit-learn, vector databases, and Azure/AWS infrastructure.
- Integrated RAG and semantic-memory systems into serverless product workflows while working across modeling, API, and operational constraints.

Machine Learning Intern — *UniQreate*

Sep 2023–Jul 2024

- Built and deployed an LLM-powered document-intelligence and chat pipeline using retrieval, vector databases, Azure Blob Storage, and serverless infrastructure.

SELECTED RESEARCH & ENGINEERING

Runtime Object Association for Embodied Agents — *NYU WIRELESS*

2026

- Developed a leakage-controlled object-association experiment using runtime-available visual, geometric, and graph features; evaluated 2,400 train / 186 validation / 771 test candidates under clean and pose-noisy conditions.
- Measured threshold F1 of 0.598 with clean pose and 0.484 with injected pose noise; documented class balance, strict-threshold coverage, pseudo-label precision, ablations, and failure modes.

Undergraduate Research Assistant — *UC San Diego*

Oct 2022–Jun 2025

- Analyzed longitudinal biomedical and neuroimaging data with Python, NumPy/Pandas, Statsmodels, GEE, family clustering, and reproducible command-line workflows.
- Completed an honors thesis studying adolescent nicotine use and impulsivity in ABCD Study data (N=9,562).

EDUCATION

New York University, Tandon School of Engineering — MS, Computer Engineering

Expected Dec 2027

University of California San Diego — BS with Honors, Cognitive Science; ML & Neural Computation specialization

Jun 2025

GPA: 3.75/4.00 · Provost Honors · Honors thesis

TECHNICAL SKILLS

ML & research: Python, PyTorch, scikit-learn, NumPy/SciPy, Pandas, Statsmodels, LLMs, RAG, evaluation, reinforcement learning, statistical modeling

Systems: Rust, C/C++, TypeScript/JavaScript, SQL, Linux, Docker, Git, gRPC, Supabase/Postgres, Azure, AWS, Cloudflare