

Sanskriti Singh

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EDUCATION

Massachusetts Institute of Technology (MIT)

Cambridge, MA

B.S. in Computer Science and Engineering

Expected May 2027

Relevant Coursework: Computation Structures, Software Construction, Deep Learning, NLP, Algorithms

Lab Assistant: Introduction to Machine Learning

Honors: Top 300 Scholar (Regeneron '24), SCVSEFA 1st ('19-'23), NCWIT National Winner ('23)

Publications: 5 peer-reviewed papers/preprints (IEEE, arXiv) – [Google Scholar](#)

EXPERIENCE

Goldman Sachs

New York, NY

Software Engineering Intern

Jun 2026 – Present

- Built a centralized risk intelligence system for 33 cybersecurity risks across 15+ PostgreSQL tables, unifying risk-register, MITRE ATT&CK, and risk-to-technique mapping data into a scalable relational architecture.
- Automated mappings across 200+ MITRE ATT&CK techniques using AI-assisted evidence extraction and Bayesian ranking to generate explainable risk associations, threat scenarios, and end-to-end attack paths.
- Shipped a React UI supporting 50+ engineering teams, dynamically linking governance and technology taxonomies through ranked MITRE mappings to standardize control workflows and reduce manual risk analysis.

Soraban

San Francisco, CA

AI/ML Software Engineer Intern

Dec 2025 – Feb 2026

- Built OCR-based document ingestion and tax-form extraction services supporting 1,000-page documents across 30+ layouts and 50+ fields, reducing end-to-end latency by 20% while maintaining >87% extraction accuracy.

Kognitos

San Jose, CA

Software Engineering Intern

Jun 2025 – Aug 2025

- Built backend microservices for an LLM-powered error-analysis product, reducing response latency by 40% to <0.56s under production load while improving reliability for high-volume operator workflows.
- Built a Django/LaunchDarkly feature-management interface for 50+ flags across development, staging, and production; containerized the service with Docker for deployment and environment management in Kubernetes.

MIT Computer Science and Artificial Intelligence Laboratory

Cambridge, MA

Undergraduate Researcher

Aug 2024 – Dec 2025

- Built/Evaluated LightGBM, LSTM, and Transformer fraud-detection models on 1M+ credit-card transactions for an Itaú Unibanco research collaboration, optimizing features while targeting a <0.1% false-positive rate.
- Developed multimodal latent-space models across 6,000+ patient records, optimizing feature representations and comparing 2D vs. 3D clustering strategies to improve patient cohort separation under Dr. Manolis Kellis.

PROJECTS

Gendered Language in Biographies | *React, Three.js, Python*

May – Jun 2026

- Built and deployed an interactive Three.js application rendering 79,680 biographies as a searchable 3D embedding map with filtering, camera navigation, and nearest-neighbor exploration across the full corpus.
- Generated MPNet embeddings and cosine-kNN neighborhoods, evaluating latent-space structure against 50 randomized baselines and finding woman-labeled profiles averaged 46% women locally versus 20.1% corpus-wide.

LeetCode World – AI Algorithm Visualizer | *React, FastAPI, Python*

Jul 2026

- Built an AI-powered coding platform with a FastAPI execution engine that runs user solutions against hidden tests, captures accepted execution traces, and converts algorithm behavior into animation plans using an LLM.
- Engineered an extensible React 3D visualization runtime supporting grid- and array-based algorithms, reusable animation effects, and dynamic problem addition without modifying the core renderer; Ramp Builders Cup finalist

TECHNICAL SKILLS

Languages: Python, Java, TypeScript, JavaScript, SQL, C, HTML/CSS, Assembly

Frameworks & Libraries: React, Three.js, Django, TensorFlow, PyTorch, scikit-learn, Matplotlib

Tools & Infrastructure: PostgreSQL, Docker, Kubernetes, REST APIs, Linux/Unix, Git, CI/CD