

ADITYA INAMDAR

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EXPERIENCE

Felician University

Rutherford, NJ

Graduate Assistant (IT Operations & Lead Administration)

Jan 2025 – May 2026

- Direct campus-wide IT helpdesk operations and supervise a team of 4 systems technicians, overseeing infrastructure uptime, hardware provisioning, and SLA compliance.
- Optimized the internal knowledge base, standard operating procedures (SOPs), and incident handling workflows, cutting average ticket resolution times by 15% across the university.
- Audit and maintain campus computer laboratory hardware, deploy software image updates, manage enterprise software licensing configurations, and lead training for onboarding student technicians.

MainlyAI

Stockholm, Sweden (Remote)

Machine Learning Systems Intern

Jan 2026 – May 2026

- Deconstructed Transformer and Hierarchical Risk Model (HRM) architectures using PyTorch to analyze layer-wise attention weights, improving model interpretability for high-dimensional financial and scientific datasets.
- Engineered automated visualization pipelines within a Graph-based IDE using Deep Graph Library (DGL) to track complex data lineage and multi-dimensional system dependencies.

ISKCON

Pune, India

Application Developer Intern

Jan 2024 – May 2024

- Managed a cross-functional engineering team of 4 developers to build, test, and deploy a secure mobile application using React Native, cutting the initial launch timeline by 30% using Agile sprints.

Google Summer of Code (GSoC) '23

Pune, India

Machine Learning Intern

June 2023 – Dec 2023

- Developed a Bone Cancer Detection model using Convolutional Neural Networks (CNNs), achieving a 15% increase in diagnostic accuracy over legacy baseline models.
- Engineered a high-throughput data preprocessing pipeline reducing medical image analysis time by 30%.

SELECTED PROJECTS

RSSM World Model (Dreamer-style)

PyTorch, MPS, NumPy, Matplotlib, HTML/CSS/JS

May 2026 – June 2026

- Implemented a Recurrent State Space Model (RSSM) for the Cheetah run environment (DeepMind Control Suite) using PyTorch, achieving a 27.4x GPU speedup on Apple Silicon (MPS) – reducing training time from 6.4 days to 5.6 hours.
- Trained a 5 million-parameter world model with deterministic (GRU) and stochastic latent states; reached reconstruction MSE of 0.000640 and open-loop prediction MSE of 0.000670 over 100,000 training steps.
- Built an interactive web dashboard (live demo) showing ground truth, reconstruction, and long-horizon dreaming rollouts – used to probe model stability and attract external research interest.
- Repository: github.com/AdityaInamdar334/cheetah-rssm-world-model

Nexus Graph RAG – Hybrid Research Assistant

Next.js, FastAPI, ChromaDB, LangChain, React Force Graph, NVIDIA NIM, Llama 3.1 8B

Apr 2026 – May 2026

- Built a production-grade research assistant that processes PDFs and answers questions using hybrid vector + graph RAG; extracts entities/relationships from text and visualizes them as an interactive force-directed knowledge graph (Obsidian-style).
- Deployed backend on Render with FastAPI and ChromaDB, frontend on Vercel; integrated NVIDIA NIM API for embedding (nv-embed-v1) and inference (Llama 3.1 8B), achieving sub-second retrieval and low-latency chat.
- Designed manual prompt parsing to bypass strict JSON output limitations of smaller models, demonstrating resilience and deep understanding of LLM integration in production.
- Repository: github.com/AdityaInamdar334/Nexus-Graph-RAG

Vapi AI Real-Time Voice Assistant Agent

Python, FastAPI, WebSockets, Twilio API, Whisper, ElevenLabs

Jan 2026 – Mar 2026

- Developed a live, production-ready conversational voice agent (accessible at: **+1 (862) 777-8890**) executing low-latency bidirectional streaming media over WebSockets.
- Integrated telecommunication trunk lines using Twilio API, constructing advanced telephony handlers to manage call state transitions, live interrupts, and context-aware session memory.

TECHNICAL SKILLS

Infrastructure & Tools: Linux, Docker, Git, AWS, GCP, WebSockets, Twilio, NVIDIA NIM, Render, Vercel, MPS

Languages & Frameworks: Python (FastAPI, LangChain, PyTorch, TensorFlow), Java, JavaScript, TypeScript, Next.js, React, SQL, C++, React Native, Deep Graph Library (DGL), Transformers, RAG, Graph ML

EDUCATION

Felician University

Rutherford, NJ

Master of Science in Computer Science (GPA: 3.78/4.0)

May 2026

Maharashtra Institute of Technology

Pune, India

Bachelor of Technology in CS and Engineering (GPA: 3.98/4.0)

May 2024