

Adithya Giri

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EDUCATION

University of California, Berkeley (Senior Standing)

Berkeley, CA

B.S. Electrical Engineering and Computer Science (EECS)

May 2028

- **Regents' and Chancellor's Scholar** (Top 1–2% of admitted students)
- **Relevant Coursework:** Efficient Algorithms (CS 170), Data Structures and Algorithms (CS 61B), C and Assembly (CS 61C), Machine Learning (CS 189), Computer Vision (CS 180), Natural Language Processing (CS 183)
- **Activities:** Machine Learning at Berkeley (MLAB).

EXPERIENCE

Machine Learning Engineering Intern

June 2025 – Present

Narada AI

Berkeley, CA

- Used Off-policy distillation on local LLMs for **45-50% improved agentic performance**
- Utilized GEPA to push our Web Agent to reach **SOTA performance on WebArena by over 10%**
- Created the entire Agent Evaluation pipeline to benchmark our web agents performance.

Machine Learning Research Intern

Nov 2025 – March 2026

Berkeley AI Research (BAIR)

Berkeley, CA

- Engineered **distributed training infrastructure** for multi-billion large early-fusion models on **NVIDIA H200** clusters utilizing **PyTorch FSDP** and optimized multiprocessing.
- Architected multi-million example datasets from raw video data to train and fine-tune world models.

Machine Learning Research Intern

May 2024 – Aug 2025

NASA Ames Research Center

Moffett Field, CA

- Implemented efficient pipelines to train ensembled models across multiple cross-validation splits in **PyTorch** to classify objects across **100GB+** of stellar light curve data.
- Developed robust training infrastructure implementing FGSM and PGD attacks; improved model reliability from **50% to 90%** while maintaining zero accuracy regression.
- Engineered an adversarial benchmarking suite and integrated robustness evaluation into the ML production pipeline to automate large-scale experiment tracking.

PROJECTS

Seismo (DataHacks 2026) 1st Place in AI/ML Track | *PyTorch, ML, FastAPI, Orchestration*

Sept 2025

- **Architected a multi-model pipeline** utilizing earthquake data to simulate earthquakes in Southern California, predict future collapse risk, and improve building structure though RL.

MoEPath: Multi-Token Expert Prediction | *PyTorch, Optimization, NLP*

June 2025 – Present

- Working on research to **reduce MoE VRAM requirements by up to 90%** through a combination of pre-gating expert prediction, increasing shared experts, and efficiently offloading routed experts to disk.

IBiT: Inductive Bias in Transformers | *Python, PyTorch, CV, ArXiv:2509.22719*

Jun 2024 – Dec 2025

- **Published novel research** proposing a low-rank matrix factorization mechanism to inject inductive biases into Vision Transformers (ViTs); achieved **+2% ImageNet accuracy** over prior SOTA models.
- Developed an interpretable framework for attention heads, reducing model reliance on positional encodings and improving out-of-distribution (OOD) generalization.

AWARDS

USA Computing Olympiad (USACO) Gold Division

Dec 2023

Regeneron Science Talent Search (STS) Scholar (Top 300 in the nation for research)

Jan 2025

Regents' and Chancellor's Scholarship | National Merit Scholarship

2025

TECHNICAL SKILLS

Languages: Python (Expert), Java, SQL, C/C++

ML Frameworks: PyTorch, FSDP, DeepSpeed, HuggingFace, TensorFlow, WandB

Tools & Systems: Linux/Bash, Docker, SLURM, Git, GCP, AWS, VS Code

Libraries: NumPy, pandas, Matplotlib, OpenCV, SciPy