Siddharth

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Experience

ML Engineer Jun. 2026 – Present
Lucio (legal tech) *Bengaluru, IND*

- Architecting a business intelligence and relationship management platform for lawyers from inception, shaping framework, language, and system-design decisions across backend and core services.
- Co-developed the first version of the company's search system as its first dedicated AI hire.
- Prototyped a legal document management system within an experimental product pod.

Senior Data Scientist, Data Scientist Jan. 2024 – May 2026
Paperflite (promoted to Senior in Jan. 2026) *Chennai, IND*

- Architected a multilingual, schema-aware multi-agent system for the **Inter-American Development Bank**, enabling researchers to query 100M+ rows of economic and survey data in natural language by generating and executing SQL and Python on demand.
- Shipped the IDB's public document chatbot, a citation-grounded RAG system now live on publications.iadb.org and commended by the bank's researchers.
- Designed an LLM-as-judge pipeline that set baseline quality metrics for niche domains without SME review.
- Deployed AI services on AWS via FastAPI, Docker, and CI/CD, with logging and latency tracing.
- Launched AI sales-roleplay simulation for Heysales, the company's first LMS, scaling it from pilot to 50–100 concurrent users and laying the foundation for its sales-enablement product line.
- Developed a real-time model predicting deal close likelihood from CRM and content-sharing signals.
- Engineered an embedding-based recommender and a heuristic converter that adapts web pages to mobile.

Sports Science Intern Nov. 2023 – Jan. 2024
IIT Madras, with Inspire Institute of Sport *Chennai, IND*

- Built the initial computer-vision pipeline for judo training analysis as the project's first engineer, using YOLOv8 and OpenCV to track athletes and measure contact time during throws.
- Developed a real-time web interface for coaches to monitor mat quadrants, zoom into athlete pairs, and review recordings, integrating camera control for Allied Vision hardware.

Projects

Cart-Pole Swing-Up RL, from scratch | *Python* 2026

- Hand-writing and benchmarking RL algorithms on a custom physics engine and reward with no RL libraries; Monte Carlo control solved balancing in 1,000 episodes, beating Q-learning trained 10× longer.

Game-Playing RL Agents | *Python, PyTorch, Pygame* 2023

- Trained a double-DQN Flappy Bird agent averaging 85.9 pipes across 100 unseen layouts.
- Developed a racing-car agent with a flood-fill progress reward, finishing 29 of 32 held-out laps.

Education

Loyola College Chennai, IND
Bachelor of Science in Mathematics *Sep. 2021 – May 2024*

- Received the Academic Scholarship for two consecutive years.

Technical Skills

Languages: Python, SQL, TypeScript
Frameworks & Tools: PyTorch, LangChain, FAISS, Pinecone, MongoDB, FastAPI, AWS, Docker