

SHREYAS NAMDEO

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Professional Summary

Aspiring AI/ML Engineer focused on agentic systems, retrieval-augmented pipelines, and applied machine learning. Experienced in building multi-agent LLM harnesses, spatio-temporal forecasting models, and container security automation. Proficient in Python, PyTorch, LangChain, and LangGraph, with a strong interest in AI agent infrastructure, RAG systems, and applied deep learning.

Technical Skills

- **Programming & Frameworks:** Python, HuggingFace, PyTorch, Flask, FastAPI, scikit-learn, NumPy, Pandas, LangChain, LangGraph
- **AI/ML:** Reinforcement Learning, RAG Applications, Vector Databases, AI Agents, LLM Fundamentals, Small Language Models, NLP, ML Pipelines
- **Tools & Cloud:** Docker, Vercel, n8n, Linux, Git, Shell Scripting

Experience

AI/ML Lead 2025 – Present
GDSC IIPS, DAVV

- Runs AI/ML workshops and project tracks for club members, guiding applied machine learning and agentic-AI builds from idea to working demo.
- Mentors student teams on hackathon submissions and helps scope their technical projects across the club's AI/ML initiatives.

Key Projects

AI Code Review System (*Python, LangGraph, LLMs*) [View Repo](#)

- Built a multi-agent system that audits GitHub repositories with three specialist LLM agents (security, performance, style) inside a 10-component harness that gates retries below 70% confidence and de-duplicates and escalates findings at a validation gate, averaging about \$0.005 per repository audited in test runs.

Spatio-Temporal Forecasting of Illegal Parking Hotspots (*Python, PyTorch, FastAPI, React*) [View Repo](#)

- Built a full-stack platform that predicts illegal-parking hotspots across 7,814 Bengaluru grid zones using a custom spatio-temporal PyTorch neural network (spatial embeddings fused with cyclic time features, trained with Poisson loss), reaching a validation RMSE of 2.83 and MAE of 1.59, plus a dispatch-routing and dynamic-tariff console for enforcement planning.

Multi-Agent Container Security System (*Python, Multi-Agent Systems*) [View Repo](#)

- Built a container security platform simulating 5 real attack techniques (Docker socket escape, namespace escape, Redis lateral movement, auth bypass, CVE simulation) across 3 sandboxed vulnerable containers, with 4 specialized AI agents scanning, monitoring, and reporting on each attack in real time.

Kaggle LLM Science Quiz Solver (*Python, DeBERTa, RAG*) [View Repo](#)

- Built an MCQ science-quiz solver for Kaggle's LLM Science Exam format, combining a fine-tuned DeBERTa-v3-large model with an LLM ensemble and a hybrid FAISS + BM25 retrieval pipeline (RRF fusion, cross-encoder reranking) over a self-scraped Wikipedia corpus; placed in the top 500 with a private-leaderboard MAP@3 score of 0.753.

Education

Integrated Master's in Computer Application (5-Year Program) 2023 – 2028
International Institute of Professional Studies, DAVV

B.Sc. in Data Science and Programming 2023 – 2027
Indian Institute of Technology Madras (Distance Learning) • GPA: 8.23

Certifications & Awards

- Applications of AI for Anomaly Detection — NVIDIA, Jan 2026