Yashvardhan Thanvi

AI Engineer | Founder of LLMSlim and AMEYOR | Jaipur, India
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SUMMARY

AI engineer and founder of LLMSlim, an open-source context layer for AI agents backed by 14 startup programs, and AMEYOR. Skilled in RAG, agents, MCP, Python, machine learning and deep learning; previously an AI/ML research intern at DRDO.

EDUCATION

Birla Institute of Technology, Mesra (Jaipur Campus) — Jaipur, India
Bachelor of Computer Applications (BCA), Minor in Artificial Intelligence; CGPA 9.35/10 — Aug 2024 - May 2027 (Expected)

EXPERIENCE

AMEYOR | ameyor.in — Jaipur, India
Founder, Sole Proprietorship (Udyam-registered MSME) — Oct 2026 - Present

- Founded an independent AI and software studio that ships LLMSlim and Krishyak in-house (**1,608 automated tests** across both) and delivers client web apps, AI features, agentic workflows and custom SaaS with written scopes and milestone demos.

Scientific Analysis Group (SAG), DRDO, Ministry of Defence — New Delhi, India
AI/ML & Software Research Intern — May 2026 - Jul 2026

- Built offline, air-gapped **RAG pipelines** with hybrid lexical and semantic retrieval, cross-encoder reranking and local LLM inference, plus prototypes that synthesize and validate policy-compliant hardware configurations.
- Contributed signal analysis on intermittent jamming and out-of-band spectral behavior for software-defined radio research.

Olinp Technologies Pvt. Ltd. — Remote
AI/ML Engineering Intern — Apr 2025 - Jun 2025

- Refactored feature-engineering pipelines in **3+ production modules**; shipped ML services via Flask and Streamlit REST APIs.

PROJECTS

Krishyak | AI for Indian Farmers | Next.js, FastAPI, PostGIS, LiteRT, Sentinel-2 | Live | GitHub — Sep 2025 - Present

- Built an AI field-intelligence platform with crop-photo disease checks, Sentinel-2 satellite views, weather, market prices, government schemes and what-if planning in **English plus all 22 scheduled Indian languages**.
- Trained a disease model with **93.71% held-out accuracy** on 8,566 photos across 38 classes and 14 crops, and **98.5%** on the photos it answers (abstains when unsure); **700 automated tests** across FastAPI and Next.js.

LLMSlim | Open-Source Context Layer for AI Agents | Python, MCP, RAG | llmslim.app | GitHub | PyPI — Jun 2026 - Present

- Built LLMSlim end to end, an MIT open-source context layer for production AI agents that decides what reaches the model and fits the token budget locally: compression engine, Adaptive Context Planner, Agent Context Runtime and Studio.
- Achieved **78.7 on the NaturalQuestions benchmark** at a 25% token budget vs **69.0 for Microsoft's LLMLingua-2**, level with LongLLMLingua (78.0) while compressing **about 100x faster**; **62x cheaper** per question on LongMemEval.
- Released core **v0.9.0 on PyPI** (12 releases, **900+ automated tests**, GitHub Actions CI) with LangChain, LlamaIndex, Haystack and MCP integrations; **#11 Product of the Day** on Product Hunt.
- Secured backing from **14 startup programs**, including OpenAI, Claude, Sarvam, MongoDB, Auth0, Sentry and Neo4j.

Pratibimb | Team Lead, Digital Twin Challenge 2026 | EnKF, LightGBM, TreeSHAP, FastAPI | Live | GitHub — Oct 2026

- Led a team building a Type 2 diabetes digital twin from a FHIR R4 record, synced to every CGM reading by a 64-member Ensemble Kalman Filter: **0.986 AUROC** for one-hour hypoglycemia alerts, **29.8 mg/dL** 30-minute RMSE vs 41.9 baseline.
- Shipped more builds: **Hearthbeat** (Amazon), a 12-tool Alexa+ MCP server at 14 ms p50; **Passerelle** (Hack Apertus), air-gapped Apertus 8B, 89% of critical facts exact in 10 languages; **StudyTwin** (IIT Mandi), 0.97 RAGAS.

OPEN-SOURCE CONTRIBUTIONS

- Merged 6 fixes into **pydantic/logfire** (#2550), **modelscope/evalscope** (#1851, #1856), **NVIDIA-NeMo/DataDesigner** (#1039), **IBM/FactReasoner** (#63) and **awslabs/stickler** (#390): log tags, metric labels, an import cycle, LLM errors, 610 dead lines.
- Opened 50+ PRs across 35+ projects, now in review at docling, crewAI, FAISS, Prophet, NLTK and Pillow; GSSoC '25 contributor.

TECHNICAL SKILLS

Languages: Python, TypeScript, JavaScript, C/C++, Java, SQL, Solidity
Machine Learning: PyTorch, TensorFlow/Keras, scikit-learn, Hugging Face, Deep Learning, NLP, Computer Vision, Transfer Learning
LLMs and Agents: Generative AI, RAG, MCP, OpenAI Agents SDK, LangChain, LlamaIndex, Haystack, Vector DBs (ChromaDB), vLLM
Engineering: FastAPI, Flask, REST APIs, Next.js, React, PostgreSQL, Docker, AWS, Git, GitHub Actions CI/CD, pytest, Linux

ACHIEVEMENTS AND LEADERSHIP

- Earned **State Rank 1, Rajasthan, at Viksit Bharat Young Leaders Dialogue 2026** (top 0.0005% of 5.05 million aspirants); represented Rajasthan at Bharat Mandapam and presented Krishyak to the Union Agriculture Minister and the DG, ICAR.
- **Invited to the Chief Minister's Residence, Rajasthan (2026)** for a youth interaction with Shri Bhajan Lal Sharma; idea on taking rural products to global markets cited by name.
- Won **1st Place, IETE Engineers' Day 2026** (Krishyak) | **Winners, SIH 2026 internal round**, nominated for nationals | **1st Prize, IETE Software Design Competition 2025** | **Global Finalist Nominee, NASA Space Apps 2025** | HackerRank 5-Star Python
- Led 8+ AI and cloud workshops for 200+ students as **AWS Student Builder Group Leader** and Gemini Student Ambassador; **Head, Innovation Council (IIC), BIT Jaipur**; GeeksforGeeks Campus Mantri; GDG on Campus Senior Coordinator.