

Gaurav Narlawar

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WORK EXPERIENCE

- Lead Software Development Engineer

Jan 2022 - Present

Coastok – Sādhana Tracking Application for ISKCON

- Led development of **data ingestion & synchronization pipelines** powering 5,000+ daily active users.
- Architected backend with **microservices, schema migrations, caching layers**, and real-time event tracking.
- Implemented **data quality monitoring, CI/CD automation, and observability**, achieving 99.9% uptime.
- Partnered with **Adobe engineers** to enhance system scalability, reliability, and long-term data platform design.

- Freelance AI Engineer

Oct 2024 - Present

Remote – Multiple Companies

- Fixed and optimized **autonomous LLM agents** with tool-use, reasoning loops, memory, and task decomposition for complex multi-step workflows.
- Stabilized **LangChain/LangGraph orchestration** pipelines by reducing tool-call failures, improving planning reliability, and hardening I/O schemas.
- Implemented **hallucination detection**, guardrails, and **fallback strategies** (self-check, multi-pass retrieval, tool retry/timeout) to increase task success.
- Designed **evaluation/feedback loops** (prompt/unit tests, human review queues, telemetry) to continuously tune prompts, tools, and policies.

- Artificial Intelligence Summer Intern

Jun 2024 - Jul 2024

IBM (AllSoft Solutions Pvt Ltd.)

- Developed and deployed **predictive analytics** systems (forecast accuracy +15%).
- Built **NLP workflows** with IBM Watson APIs (sentiment, classification).
- Deployed prototype **chatbots** to production to reduce support load.

PROJECTS

- Narada AI — Novel Transformer Architecture for Sanskrit-English Translation

Sep 2024 – Present

- Designed and implemented a **custom transformer architecture** with novel tokenization & normalization for Sanskrit script variants.
- Built **retrieval-augmented QA** with citation, grounding, and self-consistency checks to minimize hallucinations.
- Developed **HPC preprocessing & distributed training pipelines** for 400+ scripture datasets.
- Enabled **real-time voice Q&A + hymn translation** through streaming inference.

Tech Stack: Transformers, Custom Tokenizer, LangGraph, RAG, FAISS/Vector DB, HPC, OCR, Flask, Streaming

- Agentic Web Scraper & Structurer

Sep 2024 – Dec 2024

- Implemented **planning + tool-use** (browser, parser, schema validator) with retries/timeouts and content policy filters.
- Added **proxy rotation**, **CAPTCHA handling**, and LLM parsing with schema-first validation to harden pipelines.
- Used hybrid retrieval (BM25 + ANN) for dedup and enrichment; exported structured JSON with Pydantic checks.

Tech Stack: LangChain/LangGraph, Selenium/Playwright, BeautifulSoup, RAG, Pydantic, Vector DB

SKILLS AND TECHNOLOGIES

- **Languages:** Python, Scala, Java, C/C++, Kotlin, Go (Learning)
- **LLM & Agents:** Custom Transformers, LangChain, LangGraph, Prompt Orchestration, Tool-Use, Memory, RAG, RLHF, Guardrails
- **AI/ML:** Deep Learning, NLP, CV, Evaluation Pipelines
- **Data Infra:** FAISS/Vector DBs, Spark, Hadoop, Kafka, Hive, GraphQL
- **Cloud & DevOps:** AWS, Azure, GCP, Docker, Kubernetes, Linux, Git, CI/CD, MLOps
- **Integrations:** Email/Docs APIs, Webhooks, REST/GraphQL, Scheduling/Queues
- **DBMS:** MySQL, MongoDB, NoSQL, Vector Databases
- **Development:** REST APIs, Flask, React, Streamlit, OCR, PDF/Image Processing

EDUCATION

- B.Tech, Computer Science and Engineering

Lovely Professional University, Jalandhar

Sep 2022 - Jul 2026

Relevant Coursework: Machine Learning, Deep Learning, Computer Vision, NLP, System Design

CERTIFICATIONS

- IBM Machine Learning Professional Certificate, Coursera — Jan 2024
- Algorithms Specialization, Coursera — Nov 2023

LEADERSHIP EXPERIENCE

- President, Ethic Craft Club (ISKCON Youth), LPU

2024 - Present

- Organized LPU's first **Rathayatra with 2,000+ attendees**, managing a 15-member team.
- Directed **end-to-end event planning**, demonstrating leadership and coordination skills.