

Yamini Sharma

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SUMMARY

Software developer focused on applied AI and multi-agent systems. Experienced in bridging large language models with external APIs using Python, LangChain, and LangGraph to solve complex information retrieval bottlenecks. Combines backend workflow orchestration with modern web frameworks like React to build clean, fully integrated applications.

SKILLS

- **Languages:** Python, JavaScript, SQL, HTML, CSS
- **AI and Machine Learning:** Large Language Models(LLMs), Retrieval-Augmented Generation(RAG), AI Agents and Multi Agent systems, Prompt Engineering, Natural Language Processing(NLPs), Semantic Search, Vector Embeddings, Workflow Orchestration.
- **Frameworks and Tools:** LangChain, LangGraph, Google Gemini, Tavily, Pydantic, React

PROJECTS

AgentFlow - Python, LangChain, LangGraph, Tavily, Pydantic

May 2026

- **Engineered a multi-agent AI assistant** using LangGraph to orchestrate parallel workflows and intelligently route user queries, **achieving a 40% faster information gathering rate** compared to sequential processing.
- **Implemented an advanced RAG architecture** integrating vector search, document retrieval, and live web access via Tavily, **enabling the model to provide highly reliable and up-to-date answers** beyond its base training data.
- **Structured inter-agent communication** using Pydantic models to synthesize multiple outputs, **resulting in unified, coherent responses** that effectively eliminate redundant information and resolve overlapping sources.
- **Orchestrated complex workflow execution and state transitions** through a robust graph-based pipeline, **ensuring seamless end-to-end processing** from initial query classification to final response synthesis.

RAG-Assist - Python, LangChain, Pydantic, React, Tailwind

August 2026

- **Architected** an end-to-end Retrieval-Augmented Generation (RAG) pipeline using FastAPI and LangChain, indexing over 10,000+ pages of technical documentation into a vector database for sub-second semantic search.
- **Integrated** Groq-accelerated LLM inference, driving down Time-To-First-Token (TTFT) latency to under 300ms and achieving a 3x increase in query throughput compared to standard OpenAI API endpoints.
- **Engineered** a hybrid retrieval system using chunking and embedding techniques, elevating context relevance and reducing hallucinated citations by an estimated 40%.
- **Deployed** the FastAPI application and RAG pipeline on Render, establishing a highly available and scalable cloud infrastructure for seamless end-user access.

EXPERIENCE

Automation Engineer Intern- Vernovate Pvt. Ltd.

June 2025 – July 2025

- **Engineered automated website workflows**, reducing manual processing time by **25%** and significantly improving internal operational efficiency.
- **Designed and integrated a live AI-powered chatbot**, resolving approximately **50%** of routine client queries instantly and boosting overall accessibility.
- **Spearheaded the rapid deployment of a production-ready website** within a one-week timeframe, utilizing **React/Tailwind** to enhance user experience and scale digital presence.

EDUCATION

Bachelor of Technology - Computer Science & Engineering

Guwahati, India

Assam down town University • GPA: 8.4/10

ACHIEVEMENTS

- Secured **2nd** place among **25+** teams in ByteHacks 2024 (inter-college hackathon) for developing a disaster management project.
- Secured **3rd** position in Trekathon 2025- North-East' biggest hackathon with **200+** participating teams from all over North-East and India.

INVOLVEMENT

Google Developers Group Lead

July 2024 – July 2025, India

Assam down town University • Google Developer Groups on Campus

- Led the Google Developer Student Clubs chapter as the AI/ML lead. **2200+** students, **20+** high-impact tech events with **70%** reporting significant knowledge gain in emerging technologies and **4+** community members securing industry internships.
- Conducted **5+** workshops on cutting-edge AI technology.

COURSES

- Certifications from Google Cloud Skill Boosts (Generative AI and Google Cloud).