

Portfolio

Hello, I'm Samiksha.

I'm an AI/ML engineer with hands-on experience building scalable AI agents, automation systems, and workflow tools.

I specialise in Machine Learning, Deep Learning, NLP, and backend development with Python and FastAPI.



Currently building...

ContextMemory A memory system that enables AI applications to remember context across conversations.

- Automatically extracts and stores important facts from conversations
- Uses semantic search to retrieve relevant context when needed
- Handles deduplication and contradictions intelligently
- Production-ready with SQLite/PostgreSQL support
- Available as open-source pip package

Currently working on v0.1 with agentic context engineering for autonomous context organization.

- pip package: <https://pypi.org/project/contextmemory/>

- Link : <https://github.com/samiksha0shukla/context-memory>.
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Experience

@August 16, 2024
→ December 30,
2024

Artificial Intelligence Intern

Computer Market Hub

- Spearheaded Jess **chatbot** for Jessup Cellars, achieving 78% user satisfaction through testing optimization.
 - Orchestrated data pipelines processing 2K+ daily data points, improving model performance by 40%.
 - Architected **AI sentiment analysis system** processing 5K+ Hebrew posts with 87% translation accuracy.
 - Collaborated with teams to deliver 3 specialized **AI agents**, reducing manual processing time by 35%
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@August 10, 2025
→ September 30,
2025

Artificial Intelligence Intern

Munshot

- Worked on developing an **AI agent** for a Singapore-based financial services client, focusing on automated information retrieval and task execution.
- Worked with **multi-agent AI workflows**, contributing to context-sharing and coordination between agents.
- I also worked on the **prompting logic**, including system prompts and instructions for task execution.
- Collaborated with the team to **test, debug, and refine** the agent's performance while documenting the development process.







Projects







Case Studies (2)

Aa Project	≡ Short Description	🔗 GitHub
AlxAI	AlxAI V3 is an MCP-powered agent generator that creates high-quality Pydantic AI agents by analyzing requirements and documentation. It uses a RAG system built with Pydantic AI, LangGraph, and Supabase.	https://github.com/samiksha0shukla/AlxAI
HomeSage	Your Smart Companion for Real Estate Price Prediction, Analytics, and Recommendations.	https://github.com/samiksha0shukla/HomeSage
n8n	A visual workflow automation platform inspired by n8n, built with React and FastAPI, enabling users to design, connect, and automate workflows in real time.	https://github.com/samiksha0shukla/n8n

Skills

Skills (1)

Aa Name	🔗 Type
 PyTorch	Software
 Langchain	Software
 RAG	Software
 LangGraph	Software
 PydanticAI	Software
 Python	Software

Aa Name	Type
 <u>Machine Learning</u>	Software
 <u>Deep Learning</u>	Software
 <u>Agentic AI</u>	Software
 <u>FastAPI</u>	Software
 <u>SQLAlchemy</u>	Software
 <u>Pydantic</u>	Software

Hackathons

Smart India Hackathon (SIH)

@August 25, 2022
→ August 26, 2022

Represented 6-member team in designing IoT-based Sewage Problem Alert system, securing top finalist position among 30,000+ participating teams

Hack JKLU

@March 3, 2023 →
March 4, 2023

Conceptualised and prototyped Blockchain-based eVault system with 256-bit encryption, earning 3rd place recognition for innovation

Education

@September 1, 2021
→ June 20, 2025

Baderia Global Institute of Engineering and Management
Bachelor of Technology in Computer Science

Let's connect



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GitHub



LinkedIn