

# 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
<u>AlxAI</u>	<u>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.</u>	<a href="https://github.com/samiksha0shukla/AlxAI">https://github.com/samiksha0shukla/AlxAI</a>
<u>HomeSage</u>	<u>Your Smart Companion for Real Estate Price Prediction, Analytics, and Recommendations.</u>	<a href="https://github.com/samiksha0shukla/HomeSage">https://github.com/samiksha0shukla/HomeSage</a>
<u>n8n</u>	<u>A visual workflow automation platform inspired by n8n, built with React and FastAPI, enabling users to design, connect, and automate workflows in real time.</u>	<a href="https://github.com/samiksha0shukla/n8n">https://github.com/samiksha0shukla/n8n</a>

# Skills

## Skills (1)

Aa Name	⌚ Type
 <u>PyTorch</u>	Software
 <u>Langchain</u>	Software
 <u>RAG</u>	Software
 <u>LangGraph</u>	Software
 <u>PydanticAI</u>	Software
 <u>Python</u>	Software

Name	Type
 <a href="#"><u>Machine Learning</u></a>	Software
 <a href="#"><u>Deep Learning</u></a>	Software
 <a href="#"><u>Agentic AI</u></a>	Software
 <a href="#"><u>FastAPI</u></a>	Software
 <a href="#"><u>SQLAlchemy</u></a>	Software
 <a href="#"><u>Pydantic</u></a>	Software

## Hackathons

@August 25, 2022  
 → August 26, 2022

### Smart India Hackathon (SIH)

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

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@March 3, 2023 →  
 March 4, 2023

### Hack JKLU

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

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## Education

# Baderia Global Institute of Engineering and Management

@September 1, 2021

→ June 20, 2025

Bachelor of Technology in Computer Science

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## Let's connect



[GitHub](#)



[LinkedIn](#)