

# Nikhil Yagik

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## SUMMARY

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AI and ML engineer with hands-on experience building production-grade LLM applications, agentic pipelines, and retrieval-augmented generation systems. Proficient in full-stack web development and capable of leading projects end to end, from REST API design to interactive frontend delivery. Dedicated to engineering intelligent software that solves real-world problems efficiently.

## EDUCATION

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**Master of Computer Applications (MCA), Indus University, Ahmedabad, GJ** 2025 to Present

First Semester SGPA: 9.7 out of 10

**Bachelor of Computer Applications (BCA), VNSGU, Rofel College, Vapi, GJ** 2022 to 2025

CGPA: 7.7 out of 10

## TECHNICAL SKILLS

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**Languages:** Python, JavaScript, Java, C++, OOP, DSA

**Full-Stack Development:** Astro, Svelte, React, Node.js, Express, MongoDB, REST APIs

**Machine Learning:** Linear Regression, Logistic Regression, KNN, Naive Bayes

**Deep Learning:** CNN, RNN, LSTM, GRU, Transformers, Encoder-Decoder Architectures

**NLP and LLMs:** Tokenization, Embeddings, Attention Mechanisms, Semantic Search, RAG, Hugging Face

**AI Frameworks:** LangChain, LangGraph, LangSmith

**Tools and Libraries:** PyTorch, TensorFlow, scikit-learn, FAISS, NumPy, Pandas, OpenCV, MediaPipe, Git, Postman

## WORK EXPERIENCE

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**Freelance Full-Stack Developer – SeluraOfficial, Luxury E-Commerce Platform** 2024

- Delivered a production-grade luxury e-commerce web platform for a client using Astro and Svelte, covering the complete user-facing frontend and backend.
- Built the user backend with Node.js and Express, integrating Firebase Authentication for secure login and signup flows.
- Designed Astra DB schemas for users, products, orders, and addresses, and implemented full order lifecycle management across all order states.
- Integrated the PayU payment gateway with server-side order verification, and added API rate limiting and login throttling to prevent brute-force attacks.
- Tech: Astro, Svelte, Node.js, Express, Firebase Auth, Astra DB, PayU.

## PROJECTS

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**BlogAgent - Agentic Blog Generation Pipeline** 2025

- Designed an agentic blog generation system powered by LangGraph, featuring a multi-node pipeline spanning routing, research, orchestration, parallel section writing, and final synthesis.
- Implemented fanout worker nodes for concurrent section generation, with a reducer subgraph responsible for content merging, graphic asset curation, and positioning.
- Incorporated Tavily web research to retrieve and normalize real-time evidence, producing well-sourced and factually accurate articles.
- Delivered a Streamlit frontend with multi-chat history and tabbed output panels covering Plan, Evidence, Markdown Preview, Images, and Logs.
- Tech: Python, LangGraph, Mistral AI, Tavily, Streamlit, Pydantic.

**NexChat - Stateful AI Chatbot with Conversation Persistence** 2025

- Developed an AI chatbot with persistent cross-request conversation history using LangGraph checkpointing stored in PostgreSQL.
- Constructed a multi-conversation interface with automatic thread organization and AI-generated title labeling for each conversation.
- Architected a modular FastAPI backend with streaming LLM response delivery.
- Configured tool-calling agents for calculator, web search, and weather lookups, plus PDF-anchored RAG via FAISS for document-level question answering.
- Tech: FastAPI, LangGraph, PostgreSQL, HuggingFace Llama 3.1, Streamlit.

**TimeCapsule - AI-Powered Reminder and Message Vault** 2025

- Engineered a web app for creating timestamped digital message capsules, letting users log notes and schedule reminders through natural language.
- Built a LangChain agent capable of storing, retrieving, and reasoning over capsule records to handle queries such as capsule counts and future reminder scheduling.
- Exposed scalable REST APIs and handled client-side state coordination using Zustand.
- Tech: React, Node.js, MongoDB, LangChain, HuggingFace Llama 3.1.