

ANKIT NEGI

Full-Stack Developer & AI Engineer

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Summary

Full-stack software developer and Computer Science undergraduate specializing in building production-grade web applications and AI agent systems. Experienced in full-stack architectures using React, Next.js, and Node.js, alongside integrations of Large Language Models, multi-agent orchestration, and event streaming. Strong focus on scalable cloud deployments and impactful open-source contributions.

Education

Dual Degree in Computer Science (B.Tech + M.Tech)

2024 – 2029

Indian Institute of Information Technology, Design and Manufacturing (IIITDM), Chennai

India

Projects

TechDesk AI - Industry-Grade AI Social Agent | Python, LangGraph, Kafka | [GitHub](#)

April 2026

- Engineered a fully autonomous multi-agent swarm using LangGraph and Llama 3.3 70B for social media monitoring.
- Built a RAG pipeline with pgvector over PostgreSQL and engineered Apache Kafka event streaming with an audit trail.
- Engineered Apache Kafka event streaming with an append-only audit trail, and built a FastAPI + WebSocket HITL dashboard for human approval of agent drafts.
- Implemented RLHF preference collection and a contextual bandit strategy tracker in Redis for self-improving replies.

DocIntel - Document Intelligence & Agentic RAG Platform | Next.js, FastAPI, ChromaDB | [Live Demo](#) June 2026

- Built a full-stack RAG platform that parses scanned/digital PDFs with OCR and table extraction, classifies documents via LLM, and answers questions with inline page-level citations.
- Engineered a hybrid retrieval pipeline combining vector similarity search (ChromaDB/Chroma Cloud) with BM25 keyword search via Reciprocal Rank Fusion, plus cross-encoder re-ranking for precision.
- Containerized the application with Docker and docker-compose, and migrated document metadata from flat JSON files to a Postgres-backed repository layer for production-grade persistence.
- Deployed across Render, Vercel, and Chroma Cloud, with streaming SSE chat responses, citation-grounded thumbnails, and layered upload/storage/API security.

AI Dungeon Master | Next.js 16, TypeScript, Groq API, FLUX.1 | [Live Demo](#)

February 2026

- Designed a full-stack AI text adventure game featuring distinct narrative worlds using Next.js 16 and TypeScript.
- Integrated Groq API with LLAMA 3.3 70B for low-latency streaming story narration via Server-Sent Events (SSE).
- Implemented real-world object recognition using Llama 4 Scout 17B, allowing the camera to identify physical objects and weave them into the fantasy narrative.
- Generated AI scene images per action using Hugging Face FLUX.1-schnell, and added voice input via Web Speech API and jsPDF storybook export.

Achievements & Certifications

- **Vashisht Hackathon 3.0 (2026):** Built and presented FoodBridge in the EcoTech sustainability track.
- **Amazon Nova AI Hackathon (2026):** Submitted MediScan AI demonstrating multimodal AI for healthcare.
- **HackerRank Certifications (2026):** SQL (Intermediate) & SQL (Basic) covering advanced queries and aggregations.

Skills

Programming: Python, JavaScript, TypeScript, C++, C, SQL, HTML, CSS

Frontend: React 18/19, Next.js 14/16, Tailwind CSS, Three.js, Progressive Web Apps (PWA)

Backend & APIs: Node.js, Express.js, FastAPI, REST, Webhooks, Apache Kafka

Databases: PostgreSQL, pgvector, Vector Search

AI/ML: LangGraph, Multi-Agent Systems, RAG, LLMs (Groq, Llama, OpenRouter), Prompt Engineering

Cloud & DevOps: AWS, Docker, Vercel, Git, Linux, Stripe Integration

Core CS: Data Structures and Algorithms (DSA), Object-Oriented Programming (OOP), Database Management Systems (DBMS), Problem Solving