

Nikshaan Shetty

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EDUCATION

Dwarkadas J. Sanghvi College of Engineering

B.Tech, Artificial Intelligence & Machine Learning (Honours in Financial Technology)

CGPA: 9.62

Mumbai, India

Sep. 2024 – Present

EXPERIENCE

Varak Welfare Society

Full-stack Developer Intern

Indore, MP (Remote)

Sep. 2025 – Jan. 2026

- Built a scalable **subscription engine** using **Django**, **PostgreSQL**, and **Razorpay**, designing the **React.js** interface to handle 100% of payment edge cases, including transactions for **unauthenticated guest users**.
- Migrated the platform from **Vue.js** to **React.js** to improve **mobile responsiveness** and reduce **initial load latency by 35%**, while building dynamic features like **Campaign pages**, **FAQs**, a backend-controlled **navbar**, and an **admin dashboard** visualizing data via **custom stored queries**.
- Implemented a secure **Google OAuth 2.0 login system** with custom input validations and error handling, while **guiding 4 developer interns** through their onboarding setup and providing active **debugging support**.

PROJECTS

Product Wizz (RAG-Based Review Analyzer) | *React, FastAPI, LangChain, ChromaDB*

- Engineered a **RAG pipeline** within a Chrome Extension to scrape and **generate vector embeddings** for product reviews from Amazon and Flipkart, enabling **semantic search** over unstructured data.
- Integrated the **Zephyr-7B LLM** locally to perform **sentiment analysis** and technical specification auditing, delivering **offline-capable insights** without external API costs or data dependency.
- Architected a **persistent chat system** with robust **session management**, transforming static e-commerce pages into **interactive conversational interfaces** that retain context and history across browser restarts.

LLM From Scratch (GPT Implementation) | *Python, PyTorch, NumPy, Pandas, Matplotlib*

- Implemented a **decoder-only Transformer architecture** from the ground up in **PyTorch**, manually coding **Multi-Head Causal Attention** mechanisms and Position-wise Feed-Forward networks.
- Engineered a complete **pre-training pipeline** with custom **tokenizers** and sliding-window data loaders, optimizing model convergence using **Layer Normalization** and **GELU activation functions**.
- Fine-tuned the model for downstream tasks, performing **Instruction Tuning** on the **Alpaca dataset** and adapting the generative architecture for **text classification** (Spam Detection).

LocalBee (Geospatial Discovery Platform) | *Next.js, FastAPI, PostgreSQL, Leaflet.js, TailwindCSS*

- Developed an **interactive geospatial dashboard** enabling users to pin coordinates on a world map and store **metadata**, including custom ratings, descriptions, and image links.
- Engineered a **tag-based filtering architecture** to optimize location discovery, alongside full **CRUD capabilities** allowing for real-time updates and deletion of travel records.

ACHIEVEMENTS

- 1st Runner Up, AIML Domain Winner – CodeQuest Hackathon:** Built NyaySetu, a generative AI legal assistant with form generation and legal news.
- 2nd Runner Up, AIML Domain Winner – Hackops Hackathon:** Developed JournalPal.AI, a research tool for finding related academic papers.
- Open Source Contributor – GirlScript Summer of Code 2025:** Merged multiple pull requests for frontend and API bug fixes, error handling and validations in web-dev projects.

TECHNICAL SKILLS

Languages: Python, JavaScript, TypeScript, C

AI/ML & GenAI: PyTorch, LangChain, ChromaDB, Scikit-learn, Pandas, NumPy

Web Technologies: React.js, Next.js, TailwindCSS, Node.js, Express.js, FastAPI, Astro

Tools & Databases: Git, GitHub, Postman, Linux, PostgreSQL, MongoDB