

# Nainsi Gupta

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## Education

### B.Tech. in Computer Science and Engineering

2022-2026

Vellore Institute of Technology | CGPA: 8.51/10

## Technical Skills

Languages: C++, Python, JavaScript, SQL

Frontend: HTML5, CSS3, React.js, Bootstrap, Tailwind CSS

Backend: Node.js, Express.js, FastAPI, MongoDB, PostgreSQL

Concepts: RESTful API Design, Object-Oriented Programming, Software Engineering, Machine Learning Fundamentals

Tools & Platforms: Git, GitHub, VS Code, Vercel, Render, Jupyter Notebook, AWS

## Projects

### CompetitorScan - AI Market Insights & Sentiment | Next.js, Node.js, Python, PostgreSQL, NLP

Oct, 2025

- Architected a 3-tier microservice platform (Next.js, Express.js API, Python ETL), with end-to-end frontend and backend development, to track, analyze, and visualize actionable intelligence (Share of Voice, Net Sentiment Score).
- Implemented a backend NLP pipeline using Zero-Shot Classification, integrated with the frontend to improve sentiment attribution accuracy by 20% for multi-competitor articles (e.g., "Swiggy" vs. "Zomato").
- Developed a high-performance frontend dashboard with React Query caching, debounced search, and server-side pagination, backed by optimized APIs to deliver time-series trend graphs and a real-time, filterable news feed.

### FreshTrack - Predictive Food Waste & Risk Analytics Platform | MERN Stack, NLP & Analytics

Jul, 2025

- Built a rule-based predictive engine analyzing 3,000+ product records daily, generating spoilage-risk scores and alerts.
- Developed a centralized dashboard with frontend and backend integration, showing product-level insights (price, expiry, risk score, business impact) with automated discount/donation recommendations.
- Engineered a full analytics pipeline with REST APIs integrating Excel dataset processing, risk scoring logic, donation matching, and smart alerts.

### CollabSphere - Campus Engagement Network | React.js, Node.js, Express.js, MongoDB, Web Scraping

Jan, 2025

- Pioneered a full-stack social platform connecting 5,000+ users with real-time chat, requests, and interactive modules (posts, comments, reactions, uploads), boosting engagement.
- Integrated a backend job-scraping and NLP engine (Puppeteer, Cheerio, Natural) processing thousands of listings weekly, improving profile-job matching accuracy.
- Optimized REST APIs and MongoDB queries, reducing average API response time by 40% under concurrent load.

### NagarSaathi - Powering Civic Tech for Every Ward | MERN Stack, Google OAuth, Tailwind CSS

Nov, 2024

- Spearheaded development of a full citizen-facing web platform for filing and tracking municipal issues (water, drainage, waste) across all wards, featuring ward-specific QR codes for direct access.
- Designed multi-level dashboards (Citizen, Ward Admin, Super Admin) with frontend and backend/API development, implementing role-based access control (RBAC) and automated reporting, reducing complaint resolution tracking time by 25%.
- Developed interactive dashboards and data visualizations for Ward Admins, enabling efficient monitoring of municipal issues and tracking of complaint resolution progress.

## Internship

### Software Development Engineer Intern | Bluestock Fintech (Remote)

Jan 2025 – Feb 2025

- Developed a React.js and Node.js-based admin dashboard for IPO management, reducing data entry errors and improving the market disclosure process within the compliance department.
- Collaborated on a production-level IPO web application and REST API used by internal teams, utilizing GitHub for version control and following rigorous code review practices to maintain industry-standard quality.

## Achievements

**Hackathon Recognition - Providence Leap Ideathon:** Cleared the Second Round and recognized as a Next-Gen Thinker for designing an SMS/voice-enabled healthcare web app that improved data accuracy and enabled 3x wider reach in low-connectivity, underserved communities.

**HP Power Lab 2.0:** Cleared the First Round; Prototype in development for an AI-driven IoT Traceability System (Smart Drainer AI) to standardize used oil collection data and ensure full EPR compliance for the circular economy.

## Certifications

- OCI 2025 Certified Generative AI Professional – Oracle University (Oct 2025)
- OCI 2025 Certified Data Science Professional – Oracle University (Oct 2025)