

# 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

Frameworks and Libraries: FastAPI, React.js, Next.js, Node.js, Express.js, Scikit-learn, Pandas, Numpy, Matplotlib

AI/ML: Supervised Learning, Unsupervised Learning, Model Deployment, Data Engineering, NLP

Data Analytics and Visualizations: Tableau, PowerBI, Excel

Databases: MongoDB, MySQL, PostgreSQL

Tools & Technologies: Git, GitHub, VS Code, Supabase, Vercel, Render, Jupyter Notebook, AWS, Linux

## 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) to track, analyze, and visualize actionable intelligence (Share of Voice, Net Sentiment Score) for competing startups.
- Implemented an NLP model using Zero-Shot Classification to solve contextual ambiguity, accurately assigning targeted sentiment when multiple competitors (e.g., "Swiggy" vs. "Zomato") are mentioned in one article.
- Developed a high-performance dashboard with React Query caching, debounced search, and server-side pagination, providing users with time-series trend graphs and a real-time, filterable news feed.

### BrainWave3D – Early ADHD Detection using Deep Learning | FMRI, Deep Learning, Python

Apr 2025

- Engineered a novel deep learning framework for spatial-temporal fMRI analysis of pediatric brain scans, accelerating early ADHD diagnostic workflows by 40% while maintaining high clinical reliability.
- Developed a custom hybrid Conv3D-LSTM architecture and trained it on 3D fMRI datasets, achieving 82% validation accuracy for early ADHD pattern recognition.
- Optimized end-to-end processing by streamlining data ingestion pipelines, automated fMRI preprocessing, and model training workflows using Python, TensorFlow, PyTorch, NumPy, and NiBabel.

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

Jul, 2025

- Designed a rule-based predictive engine that analyzes 3,000+ product records daily using expiry data, category sensitivity, environmental factors, and customer feedback to generate spoilage-risk scores and alerts.
- Built a dashboard delivering product insights with automated discount and donation recommendations for near-expiry items.
- Engineered a full analytics pipeline integrating Excel dataset processing, proprietary risk scoring logic, donation matching, and smart suggestions (discount alerts, environmental alerts, inventory optimization) via scalable REST APIs.

### 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 (student, alumni and faculty) with real-time chat, requests, and interactive modules (posts, comments, reactions, uploads), boosting user engagement.
- Integrated a job-scraping and NLP engine (Puppeteer, Cheerio, Natural) processing thousands of listings weekly to match profiles with high accuracy, improving job discovery efficiency.

## 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, now in the Prototype Round, designing 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)