

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

AI/ML: Supervised & Unsupervised Learning, Deep Learning, Data Preprocessing, Feature Engineering, GenAI (LangChain, LLMs)

Concepts: Data Structures & Algorithms (DSA), Object-Oriented Programming, RESTful API Design, Software Engineering

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) to track, analyze, and visualize actionable intelligence (Share of Voice, Net Sentiment Score) for competing startups.
- Implemented a backend NLP pipeline using Zero-Shot Classification, integrated with the frontend to improve sentiment attribution accuracy for multi-competitor articles (e.g., “Swiggy” vs. “Zomato”).
- 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.

FreshTrack-Predictive Food Waste & Risk Analytics Platform | React, Node.js, & Predictive Analytics

Sep, 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.
- Created 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 integrating Excel dataset processing, proprietary risk scoring logic, donation matching, and smart suggestions (discount alerts, environmental alerts, inventory optimization) via scalable REST APIs.

Traffic Forecasting using Graph Convolution - LSTM Model | Python, PyTorch, TensorFlow

Jul, 2025

- Developed a hybrid GCN + LSTM model for traffic flow prediction, effectively capturing both spatial relationships between road networks and temporal traffic patterns.
- Applied extensive feature engineering and data preprocessing techniques, including normalization, to improve model stability and prediction performance compared to baseline approaches.
- Forecasted traffic speed, volume, and congestion trends across multiple routes using deep learning and graph-based analytics to support intelligent transportation insights.

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.
- Automated 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

- Engineered a full-stack admin dashboard using React.js and Node.js to support IPO management workflows, improving data accuracy and streamlining the market disclosure process within the compliance team.
- Contributed to a production-grade IPO web application and scalable REST APIs, collaborating through Git/GitHub and rigorous code reviews to ensure high code quality, reliability, and maintainability.

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)