

Samyak Gupta

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Education

Vellore Institute of Technology, Vellore

Sep 2022 – Apr 2026

B.Tech. in Computer Science and Engineering

Vellore, TN

- **CGPA:** 8.14/10
- **Relevant Coursework:** Data Structures and Algorithms, Operating Systems, Database Systems, Computer Networks, Artificial Intelligence, Probability and Statistics

Technical Skills

Languages: JavaScript, TypeScript, Python, Java, C++

Frameworks & Libraries: React.js, Next.js, Node.js, Express.js, Tailwind CSS

Databases: PostgreSQL, MongoDB, MySQL, Prisma ORM

Tools & Platforms: Git, Docker, Cloudflare Workers, AWS (Lambda, S3, API Gateway)

Projects

PhishGuard AI | Python, scikit-learn, Flask, Node.js, React.js, Chrome Extension API (MV3)

- Designed a multi-stage phishing detection pipeline combining browser heuristics, a scikit-learn model, and LLM-based analysis for improved classification accuracy.
- Built a Chrome Extension (Manifest V3) to intercept URLs, perform client-side checks, and trigger backend analysis for suspicious cases.
- Developed a Node.js/Express backend integrating a Flask-based ML service for efficient inference and seamless API handling.
- Created a real-time dashboard to monitor detected threats, confidence scores, and URL patterns.

Collaborative Drawing App | Next.js, TypeScript, WebSockets

- Built a real-time collaborative whiteboard allowing multiple users to draw and interact simultaneously.
- Implemented low-latency synchronization using WebSockets to ensure consistent state across clients.
- Optimized event handling and data flow to reduce server load and improve responsiveness.

Blogging Platform | TypeScript, React.js, Hono.js, PostgreSQL

- Developed a full-stack content publishing platform with JWT-based authentication and user management.
- Deployed backend services on Cloudflare Workers for improved scalability and reduced response times.
- Optimized database queries using Prisma ORM for efficient data retrieval.

Research & Innovation

Published Patent

Application No. 202641059393

Cross-Channel Phishing Risk Assessment System with Semantic Correlation

- Co-inventor of a published patent on an AI-powered phishing detection system leveraging transformer-based semantic analysis, ensemble machine learning, and SHAP-based explainable AI.

Samsung R&D Institute India (Samsung PRISM Program)

Jul 2025 – Jan 2026

Research Program

Remote

- Contributed to research on multimodal AI involving text and image understanding.
- Worked on model evaluation and title generation for AI workflows.

Hackathons & Competitions

Yuvamanthan Hackathon 2024 – Top 5 Finalist, VIT Vellore [Certificate](#)

AI for Good Hackathon 2025 – Top 100 out of 8000 participants (Pan-India) [Certificate](#)

Certifications

Microsoft Azure AI Fundamentals (AI-900) – Fundamentals of AI and Azure AI services [Certificate](#)

Leadership Experience

AIESEC VIT (2023–2024) – Global Volunteer Team Member; led outreach initiatives, improving applicant conversions by 15%

VITMAS VIT (2023–2024) – Core Committee Member; organized university-level hackathon with 500+ participants