

Luv Gupta

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EDUCATION

Vellore Institute of Technology, B.Tech. in Computer Science

Sept. 2022 – May 2026

- CGPA: 9.03/10
- **Relevant Coursework:** Data Structures & Algorithms, Object Oriented Programming, Operating Systems, Computer Networks, Database Management Systems, Computer Architecture, Compiler Design
- Earned the **AWS Cloud Practitioner Certification** with a score of **75.4%** [[link](#)]

TECHNICAL SKILLS

- **Languages:** Java, Python, C++, JavaScript, SQL, Bash
- **Frameworks/Tools:** NextJS, Flask, Node.js, React, Firebase, AWS CLI, Git, Docker
- **Libraries/Platforms:** TensorFlow, Scikit-learn, NLTK, Pandas, NumPy, Matplotlib
- **Developer Tools:** Visual Studio Code, GitHub, Postman, Jupyter, IntelliJ

EXPERIENCE

Datawise, Intern at Founder's Office

May 2025 – July 2025

- Designed and proposed a **high-availability, fault-tolerant network architecture** for **on-premise infrastructure**, reducing downtime risk by **40%** using **redundant failover paths** and **scalable node design**.
- Independently researched and evaluated **more than 10 enterprise-grade routers, firewall appliances**, and **redundancy protocols** to recommend cost-effective and scalable solutions that significantly enhanced infrastructure **performance, security**, and **network reliability** for production deployment.
- Delivered a **production-ready architecture diagram** integrating **HAProxy, Proxmox clusters, ZFS replication**, and **dual-ISP failover** to meet future **scale, performance**, and **reliability** needs.

Tech Mahindra, AWS System Operations Intern

May 2024 – July 2024

- Optimized AWS resources (**EC2, S3, Lambda**) by up to **15%** through performance tuning, code refactoring, and architectural improvements aligned with AWS security, scalability, and cost-efficiency best practices.
- Automated 10+ cloud tasks using the **AWS CLI**, cutting manual workload and deployment time by **30%**.
- Deployed and maintained **CloudWatch** dashboards and alerts across multiple AWS services, reducing incident response time and enabling **proactive system monitoring, diagnostics, and automated remediation**.

PROJECTS

PillBox | NextJS, FireBase, Flask, Git | [link](#)

- Led the development of a **medication delivery system for the elderly**, improving accessibility by **30%**; **designed the frontend interface using NextJS** for a user-friendly experience and **integrated Firebase** for real-time data handling, user authentication, seamless backend communication, and cloud data storage.

FAQ-ChatBot | NLTK, BERT, Flask, SciKit-learn | [link](#)

- Built an intelligent FAQ chatbot that uses **BERT** for natural language processing and question answering, **TF-IDF** for contextual matching, and **NLTK** for sentiment analysis and named entity recognition. The chatbot **improved answer accuracy by 40%**, enhanced user interaction by **handling user sessions and feedback**, and reduced the need for manual customer support by automating responses to frequently asked questions.

POSITIONS OF RESPONSIBILITY

Project Head

- Led technical events like **Sapient Synthesis** (with 2 startup founders) and **ML 301**, teaching **AI concepts** and delivering hands-on sessions in **machine learning model development** for 100+ students.