Gayatri Nagi

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Education:

Vellore Institute of Technology	Bhopal, India
BTech(Computer Science and Engineering) - GPA: 8.77	**Oct 2022-Present**
Sadhu Vaswani International School for Girls	Delhi, India
Class XII(CBSE)- 93.4%	**July 2022**
Class X(CBSE)- 93.4%	**April 2020**

Skills Summary

Languages: Java, Python, C++, SQL, HTML, CSS and JavaScript
Tools: MySQL,Microsoft Excel**,** PowerPoint,
Soft Skills: Communication, Problem solving, Critical Thinking, Teamwork, Leadership
Extracurricular Activities: Table Tennis, Painting, Dancing

Work Experience

Cybersecurity & IT Operations Intern   **Nov 2024 – Jan 2025**
SoftNet Megatrends Pvt. Ltd.

- Assisted in **cybersecurity solutions**, **IT operations**, and **software licensing & compliance**.
- Supported security policy implementation and compliance audits.
- Ensured data confidentiality and secure IT infrastructure management.

Projects

EncryptoSafe- Secure File Vault   **June 2025**

- Developed a **Java-based secure file vault** with AES-256 encryption, BCrypt password hashing, per-user vaults, and reliable file I/O for multi-MB files with **100% encryption accuracy.**
- Designed **cross-platform CLI and Swing GUI interfaces**, and built a **modular Maven architecture** integrating BouncyCastle and jBCrypt for robust, scalable security.

PomoNote & Focus Tracker   **May 2025**

- Engineered a full-stack productivity web app with Pomodoro timer, task manager, Cornell note system, and weekly heatmap dashboard using **HTML**, **CSS**, **JavaScript**, and **jsPDF**. Implemented floating timer UI, local storage for session persistence, and PDF export to streamline study workflows.
- Developed a computer vision–based focus tracker using **OpenCV**, **dlib,** and **EAR (Eye Aspect Ratio)** to classify attention with over **85% accuracy**, measuring real-time focus vs. distraction time.

Predictive health Insurance Model for Shield Insurance   **January 2025**

- Implemented a predictive health insurance model using machine learning algorithms, achieving an **accuracy of over 67%** in estimating insurance premiums based on health and lifestyle factors.
- Created an interactive web application for underwriters, integrating predictive analytics and cloud deployment to streamline insurance premium calculations and risk assessment.

Certifications

- Marketing Analytics- NPTEL (May 2025)
- Introduction to Cybersecurity Tools & Cyberattacks – IBM (Coursera Dec 2024)
- Cloud Computing –NPTEL **(Top 1%)(**May2024)

Achievements

- Ranked in the **Top 1%** of NPTEL's Cloud Computing course.
- **HackOnBlocks**: Directed a high-impact prototype that earned recognition as one of the top 10 projects out of 150+ teams, demonstrating strong design and execution.
- Smart India Hackathon 2023 **– Smart Walk Real-Time Crowd Density Tracker:** Proposed a real-time crowd monitoring concept for **SIH 2023** to enhance safety, optimize resource utilization, and help individuals identify less crowded spaces.