

## Gayatri Nagi

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### Skills Summary

**Languages:** Java, C++, Python and SQL

**Tools:** MySQL, Microsoft Excel, PowerPoint,

**Soft Skills:** Communication, Problem solving, Teamwork and Leadership

**Extracurricular Activities:** Table Tennis and Painting

### Work Experience

#### Cybersecurity & IT Operations Intern

Nov 2024 – Jan 2025

*SoftNet Megatrends Pvt. Ltd.*

- Assisted in preparing SOC 1 & 2 (Type I & II) reports and aligning with ISO 27001 standards.
- Created information gathering checklists and risk assessment sheets for client IT environments.
- Gained knowledge of cybersecurity controls, endpoint device security, and penetration testing basics.

### 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

April 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

- Developed and deployed a predictive model using Random Forest that achieved **87.9% R<sup>2</sup> accuracy** and **<10% error margin in 68% of cases** for personalized health insurance premium estimation.
- Built an end-to-end web application using **Flask and Materialize CSS**, enabling **real-time predictions** with **<2-second latency**, improving underwriting efficiency by automating quote generation.
- Hosted the solution on **Render Cloud**, integrating a Straight-Through Processing (STP) system to reduce manual effort and enable **99.8% uptime** for underwriters and clients.

### Education:

#### Vellore Institute of Technology

Bhopal, India

BTech(Computer Science and Engineering) - GPA: 8.75

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

### Certifications

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

### Achievements

- 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.