

# Sowmya A

✉ sowmyaarumugam14@gmail.com    ☎ +91 7904044784    💻 Leetcode-sowmyaarumugam    in sowmyaa14    🌐 SowmyaA14

## Education

### Chennai Institute Of Technology

Nov 2022 – Present

Bachelor of Technology in Artificial Intelligence and Data Science

- CGPA: 8.7/10.0

## Experience

### Full Stack Web Development Intern

May 2024 - July 2024

Next24Tech

- Gained hands-on experience in React.js, MongoDB, and Django for building robust and scalable applications.
- Acquired skills in API development, database management, and cloud deployment with AWS.

### Virtual Internship Program in Cybersecurity

May 2023 – Jul 2023

Cisco

- Gained hands-on experience in network security, threat detection, and risk management.
- Worked on securing web applications by identifying vulnerabilities and suggesting improvements.

## Technical Skills

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

**Developer Tools:** Git & GitHub, AWS (S3, IAM, Deployment), VS Code, Docker, Jupyter Notebook

**Technologies:** ReactJS, NodeJS, ExpressJS, MongoDB, Bootstrap, PostgreSQL, Tailwind CSS, Linux

**Machine Learning& AI:** PyTorch, TensorFlow, CNNs, Transformers

## Projects

### Explainable AI for Research

[github.com/SowmyaA14](https://github.com/SowmyaA14) [🔗](#)

- Developed a tool that enables users to upload research papers for automated summarization and model interpretation using interactive D3.js visualizations to enhance transparency and insights.
- Tech Used: Python, T5-BERT and D3.js.

### AI Dungeon Master (Text-Based RPG)

[github.com/SowmyaA14](https://github.com/SowmyaA14) [🔗](#)

- AI-powered text-based RPG where players type their actions, and the AI dynamically generates a storyline, quests, and NPC interactions.
- Tech Used: GPT-4, LangChain, Python, React

### Diabetes Prediction using Machine Learning

[github.com/SowmyaA14](https://github.com/SowmyaA14) [🔗](#)

- Developed a predictive model using Python, Scikit-learn, and Random Forest to analyze patient data and assess diabetes risk with high accuracy.
- Tech Used: Python, Scikit-learn, Pandas, NumPy, Matplotlib, Random Forest, Logistic Regression.

## Programming Achievements

**Leetcode:** Solved 750+ Problems, with 1660 as my highest rating and top 16.21

**CodeChef:** Solved 400+ problems, with 1272 as my highest rating by attending 45+ contests.

**Skillrack:** Solved 430+ and also completed Python 3.x - Programming Course (Hands-On).

## Certifications

**NPTEL:** Cloud Computing, Cybersecurity and Privacy, Introduction to internet of things

**Cisco:** Introduction to Networks, Cybersecurity and Packet tracer, Cybersecurity essentials

**Skillrack:** Python 3.x - Programming Course (Hands-On)

**Udemy:** Python and machine learning for complete beginners

## Achievements

**SIH:** Selected as a finalist in an intra-college hackathon event hosted by Chennai Institute of Technology.