

Jiya Gayawer

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Education

S.R.M Institute of Science and Technology

Expected June 2026

B.Tech in Computer Science with specialization in Information Technology (GPA: 9.89)

Chennai, Tamil Nadu

- **Relevant Coursework:** Data Structures and Algorithms, Design and Analysis of Algorithms, Statistics for Machine Learning, Advanced Calculus and Complex Analysis, Operating Systems, Formal Language and Automata
- **Achievements:** Ranked 1st in department and awarded a performance-based scholarship.

Experience

Samsung R&D Institute, Bangalore

July 2024 - Present

PRISM Research Intern

Remote

- * Developing a traffic simulator using DPDK for high-performance network traffic monitoring and generation.
- * Implementing scalable multi-core solutions supporting thousands of servers/clients, enhancing network performance testing.

Projects

SHEild - Women Safety Platform | Flutter, AI/ML, Firebase, SQLite

[GitHub](#)

- Built proactive safety features including risk assessment (analyzing historical crime patterns) and offline-capable emergency alerts via SMS
- Engineered real-time location monitoring with automated danger-zone alerts and hidden surveillance detection, implementing end-to-end encryption for all user data

Krishi - Smart Farming Assistant | Flutter, Firebase, Machine Learning

[GitHub](#)

- Built ML-powered farming assistant (94% price prediction, 98% crop accuracy) with real-time weather integration, offline functionality, and activity tracker
- Engineered scalable architecture featuring secure authentication, session management, and cross-device accessibility

Spendr - Expense Tracker | HTML, CSS, JavaScript, MySQL

[GitHub](#)

- Developed a full-stack personal finance manager with intuitive dashboards visualizing spending patterns across daily/weekly/monthly timelines
- Engineered secure data persistence with MySQL, implementing CRUD operations for transaction tracking and category-based budgeting

Technical Skills

Languages: Java, Python, HTML, CSS

Concepts: Artificial Intelligence, Machine Learning, Data Structures, Algorithms, Object Oriented Programming (OOP), Database Management Systems (DBMS), Statistical Analysis

Tools and Technologies: Git, Pandas, Numpy, Matplotlib, Scikit-learn, MySQL, Figma

Soft Skills

Teamwork and Collaboration: Worked closely with peers to develop projects, fostering a collaborative environment.

Communication: Effectively communicated ideas through both written and verbal channels.

Problem-Solving: Applied analytical reasoning and creativity to solve challenges in academic and personal projects.

Adaptability: Adjusted to new situations, adapted to shifting priorities, managed diverse tasks efficiently.

Time Management: Managed time effectively to meet deadlines and balance multiple responsibilities.

Certificates/Certifications

[OCI 2024 Generative AI Certified Professional](#) | Oracle: LLMs, OCI Gen AI, Semantic Search

[Data Science Fundamentals with Python and SQL](#) | IBM: Learned to use Data Science tools and techniques

[Machine Learning Foundation](#) | AWS Academy: Fundamental concepts and techniques in machine learning.