

Srilakshmi H

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[LinkedIn](#) | [GitHub](#) | [Coding Profile](#) | [Portfolio](#)



SUMMARY

Driven and curious AI & Data Science student with hands-on experience in **Python, machine learning**, and **problem-solving**. Passionate about applying **data-driven solutions** to real-world challenges while continuously growing in a fast-paced, tech-focused environment.

EDUCATION

B. Tech Artificial Intelligence and Data Science,
Madras Institute of Technology Campus (2022 – 2026)
CGPA - 8.54/10

HSC, Sai Matriculation Higher Secondary School
(2021 – 2022), **97.67%**

SSLC, Sai Matriculation Higher Secondary School
(2019 – 2020), **98.00%**

PROJECTS

AI Powered Alchemy - Revolutionizing Drug Discovery for Tomorrow's Therapeutics

May 2024 – July 2024

- Built a deep learning pipeline (**VAE + GAN**) for drug generation, with **RNN/CNN** for toxicity and **QSAR analysis** via Random Forest; performed docking using RDKit, AutoDock & PyMOL.
- TECH STACK:** Python, VAE, GAN, RNN, CNN, Random Forest, RDKit, PyMOL, AutoDock Vina. [GitHub](#)

Dazzling Dance Studio - A Centralized Dance School Management System | February 2025 – April 2025

- Built a role-based portal for student enrollment and admin/instructor management with secure dashboards, routing, and mock API integration.
- TECH STACK:** React.js, Bootstrap, HTML, CSS, React Router, Axios, JSON-Server. [GitHub](#)

Invest IQ - The Smart Market Mentor

March 2025 – May 2025 | [Deployment](#)

- Developed an **AI-powered, educational finance dashboard** to promote financial literacy. Features technical indicators, **predictive modeling**, a stock chatbot, quiz module, and **portfolio simulator**.
- TECH STACK:** Streamlit, Python, Plotly, Scikit-learn, Hugging Face, YFinance, Streamlit Cloud. [GitHub](#)

INTERNSHIP EXPERIENCE

Edge Matrix Corporation | June 2024 – July 2024

Industrial AI with Deep Learning Intern

- Proposed a Deep Learning Framework utilizing **YOLO** and **CNN models** for real-time vehicle detection and number plate recognition.

TECHNICAL SKILLS

- Programming Languages:** Python, R, Java
- Fundamental CS Concepts:** DSA, OOPS, DBMS, OS, Information Retrieval Concepts
- Core:** ML, DL, Computer Vision, AI, MLOps, Gen AI, Data Science & Analytics Concepts
- Databases:** MySQL, Oracle, MongoDB, Neo4j
- Frameworks & Libraries:** Numpy, Pandas, TensorFlow, PyTorch, PyMOL, AutoDock, NLTK, spaCy, Streamlit
- Data Visualization:** Matplotlib, Seaborn, Plotly, Grafana, Power BI
- Web Development:** HTML, CSS, React.js (Basics), dynamic UI prototyping using Figma, and Canva
- Cloud, DevOps & MLOps Tools:** Docker, Streamlit Cloud, GitHub, MLflow, Weights & Biases, Git, Shell

CERTIFICATIONS

- AWS Academy Graduate: AWS Academy Cloud Foundations - **AWS** - [Certification](#)
- Google Analytics Certification - **Google** [Certification](#)
- Journey to Cloud: Envisioning your Solution - **IBM SkillsBuild** - [Certification](#)

ACHIEVEMENTS

- Winner of SAGE IT's All-India Level Scholarship** - Won a national level scholarship for an insightful article on 'Gen AI + Gen Z: Shaping the Future of Work,' securing a cash prize of Rs. 50,000. [Link](#)
- IIT Bombay FOSSEE Mapathon 2023: National Level Champions** - Secured a spot among 14 national champions out of 750+ teams for creating a compelling crop monitoring map of Ariyalur. [Link](#)
- IEEE Research Publication** - "Satellite Image Chronology Prediction for Sequence Modeling" - Presented at IEEE ICDSAAI 2025, CIT. [Link](#)
- Winner of ASPIRIA'23** - An Odd Semester Talent Search Title Event. It is a team event and a cash prize of 6,000 Rs. has been awarded.
- Solved 200+ problems** across coding platforms with a contest rating of 1550+.

CO-CURRICULAR ACTIVITIES

- Chairperson** - Book Readers' Club MIT | April 2025 - Present
- Senior Volunteer** - NSS | November 2022 - Present

SOFT SKILLS

- Public Speaking
- Leadership
- Problem Solving
- Creative Writing
- Drawing
- Teamwork

LANGUAGES

- English - Full Professional Proficiency
- Hindi - Limited Working Proficiency
- Tamil - Native or Bilingual Proficiency