Srilakshmi H

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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, (2022 – 2026)	**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

TECHNICAL SKILLS

- **Programming Languages:** Python, R Language, Java (Basics)
- **Fundamental CS Concepts:** DSA, OOPS, DBMS, OS, CN, 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, Keras, PyTorch, PyMOL, AutoDock, NLTK, 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, MLflow, GitHub, AWS (Basics)
- **Methodologies:** Agile (Basics), SDLC (Basics)

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
- **Solved 300+ problems** across coding platforms with a contest rating of 1690+ on LeetCode.

CERTIFICATIONS

AWS Academy Graduate: AWS Academy Cloud Foundations - **AWS**	Certification
Problem Solving: Intermediate – **HackerRank**	Certification
SQL: Advanced - **HackerRank**	Certification

ORGANIZATIONAL POSITIONS

- **Chairperson** - Book Readers' Club MIT, April 2025 - Present, **Senior Volunteer** – NSS, Nov 2022 - Present

SOFT SKILLS

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

LANGUAGES

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