Sowmiya Sree K

Krishnagiri, Tamil Nadu

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Education

Vellore Institute of Technology (VIT) — 2024–2026
MSc Data Science — Chennai, TN

Vellore Institute of Technology (VIT) — 2021–2024
Bachelor of Computer Applications (CGPA: 8.11) — Vellore, TN

Bharat Matric Higher Secondary School — 2020–2021
HSC — 88.34% — Krishnagiri, TN

Bharat Matric Higher Secondary School — 2018–2019
SSLC — 85% — Krishnagiri, TN

Projects

PharmaLens — 2025
Python, Deep Learning
- Built a hybrid CNN–BiRNN/LSTM model to predict drug-likeness from SMILES.
- Integrated RDKit and Py3Dmol for interactive 2D/3D molecular visualization in Flask.

XAI-Tomato — 2025
Python, Deep Learning
- Developed an EfficientNetB0-based tomato leaf disease classifier.
- Implemented Grad-CAM for interpretable predictions to support smart agriculture.

Advanced Portfolio Optimization — 2025
Python, Power BI
- Built a system for analyzing financial assets and identifying low-risk investment options.
- Combining XGBoost Classification with RBF Neural Networks for Effective Asset Allocation and also created Power BI dashboards for performance comparison.

Agricultural Recommendation System — 2024
Python, ML, Web
- Implemented five ML models for crop, fertilizer, and disease prediction.
- Used NPK soil values to generate optimized recommendations.

Room Booking Management System — 2023
HTML, CSS, JavaScript
- Built a 6-page interactive website for booking and room management.

Skills

Programming: Python, C, Basic Java
Analytical Tools: Excel, SQL, Power BI
Soft Skills: Problem-Solving, Communication, Leadership, Presentation, Management

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Achievements

- Coordinator — Workshop on Quantum Machine Learning, Edge AI, and Synthetic Data (2025).
- Publishing research paper: *"Advanced Portfolio Optimization"*

Certifications

- Fundamentals of Digital Marketing — Google (2024)
- Internet of Things — NPTEL (2025)

Languages

- English (R/W/S), Tamil (R/W/S), Telugu (R/S)