

Leena Sri K

Coimbatore, Tamil Nadu | Email | GitHub | LinkedIn | Portfolio

Education

B.Tech in Computer Science and Engineering , Amrita Vishwa Vidyapeetham, Coimbatore	2023 – 2027
• CGPA: 8.03 / 10	
Class 12 (ISC Board) , Jeevana School, Madurai	2020 – 2022
• Percentage: 88%	
Class 10 (ICSE Board) , Jeevana School, Madurai	2019 – 2020
• Percentage: 92%	

Projects

Billing & Inventory Management System	Python, Tkinter, CSV
• Developed a desktop billing application automating inventory, sales, and customer management.	
• Implemented real-time inventory tracking using FIFO methodology, processing 500+ daily transactions.	
• Built multi-role authentication and automated reporting modules with CSV exports.	
• Integrated WhatsApp API for digital receipt distribution, automating 300+ monthly invoices.	
Edge Computing Load Balancer Simulation	Python, YAFS
• Developed a digital twin simulation for healthcare IoT systems using YAFS to analyze fog and edge task distribution.	
• Designed an optimized load-balancing strategy that reduced response latency through efficient request allocation.	
• Modeled realistic network behavior with sensors, fog nodes, and cloud layers to study communication and computation delays.	
• Produced comparative performance metrics and visualizations to evaluate algorithm behavior under varying workloads.	
NLP Proofreading & Grammar Correction Pipeline	Python, NLP, Transformers
• Built a modular NLP pipeline including preprocessing, noise generation, transformer-based inference, and evaluation.	
• Applied FLAN-T5 and T5-Base models to improve grammatical accuracy and sentence clarity.	
• Assessed output quality using custom metrics such as Error Ratio and Diff Meaning Ratio.	
• Designed a reproducible workflow enabling experimentation with different models and noise patterns.	

Technical Skills

Programming Languages: C, C++, Java, Python, SQL, HTML5, CSS3, JavaScript

Frameworks / Libraries: Tkinter, NumPy, Pandas, Matplotlib

Databases: MySQL, PostgreSQL (Beginner)

Tools / Technologies: Git, GitHub, Linux (Basic CLI), VS Code, Jupyter Notebook, AWS (Beginner) , MATLAB

Certifications

AWS Certified Solutions Architect – Training Program , Apron	June 2025
• Completed training covering AWS core services, cloud architecture, and best practices.	
Elevate – Data and AI Excellence Program (Outstanding Performance) , Jozuna	October 2025
• Recognized for dedication and performance in data fundamentals and AI concepts.	