

AMAL GODWIN J

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EDUCATION

Amrita Vishwa Vidyapeetham

Bachelor of Technology in Computer Science & Engineering

CGPA: 6.39

Coimbatore, India

Aug. 2023 – Aug. 2027 (Expected Graduation)

TECHNICAL SKILLS

Languages: Python, Java, JavaScript

AI/ML: PyTorch, OpenCV

Data Science: Pandas, NumPy, Matplotlib

Web Development: HTML, CSS, React, Node.js, Express.js

Databases: MongoDB, MySQL

Dev Tools: Git, GitHub, VS Code, Firebase

PROJECTS

Federated Learning Simulation for Edge Networks | Python, YAML, JSON

Sep 2025

- Re-implemented and simulate a client selection approach for Clustered Federated Learning over wireless edge networks.
- Analyzed distributed learning algorithms in a simulated large-scale network, relevant to the architecture of global processing systems like VisaNet.
- Demonstrated the ability to manage a project from theoretical concept to practical simulation..

Smart-Pill-Dispenser | C

Sep 2025

- Developed an automated medication management system designed to assist elderly patients and caregivers in tracking and dispensing pills.
- Implemented core dispensing logic in C, utilizing hardware-software integration to manage scheduled medication intervals and dosage accuracy.
- Designed a user-centric notification system to provide real-time alerts, ensuring patients adhere to their prescribed medical regimens.
- Created a structured technical framework and case study documentation to validate the system's reliability in practical healthcare scenarios.

Neural network from scratch | Julia

Aug 2025

- Built a neural network in Julia from scratch using ReLU activation and gradient descent for training.
- Implemented core perceptron inference and learning algorithms without external libraries..

ADDITIONAL INFORMATION

Languages: English, Tamil

Soft Skills: Communication, Critical Thinking, Adaptability, Team Collaboration

DOMAINS OF INTEREST

Front-end and Backend Development, Machine Learning