S ADWAITHA

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About Me

- Computer Science engineering student interested in software development and practical implementation.
- Exploring web technologies, systems, and emerging areas through academic projects.

Education

- **B.Tech CSE**, Amrita Vishwa Vidyapeetham, Coimbatore 2023–Present
  CGPA: 7.86
- **Class XII**, Palghat Lions School 2022–2023
- **Class X**, Palghat Lions School 2019–2020

Technical Skills

- **Languages:** Python, C/C++, Java, JavaScript, SQL, HTML/CSS
- **Tools:** Git, Linux, VS Code, Eclipse, Wireshark
- **Libraries:** Pandas, NumPy, Matplotlib, Scikit-learn
- **Domains:** Blockchain (Solidity, Web3), Edge/Fog Computing (iFogSim), Embedded Systems

Projects

- **SmartPKU – Edge–Fog Phenylalanine Monitoring** GitHub
  iFogSim-based edge–fog simulation implementing two-level threshold detection with dietary recommendations and emergency alerts.
- **ValueCentric – Blockchain Supply Chain System** GitHub
  Solidity smart contracts for immutable supply-chain event recording, demonstrated using Ganache and Hardhat.
- **Habit Tracker Web Application** GitHub
  Web-based application for daily habit tracking with progress visualization to promote consistency.
- **GA-Based Solution for the 0/1 Knapsack Problem** GitHub
  Genetic Algorithm implementation with generation-wise optimization analysis and Excel-based result visualization.
- **Gyroscope-Based Movement Controller (STM32F4)** GitHub
  STM32F4-based controller converting real-time gyroscope orientation into gesture-driven control signals.

Experience

- **Metatron Cube Software Solutions** Jun 2025–Present
  Frontend Developer Intern (Remote)

Publications

- **Empowering STEM Education Through Robotics** — *Presented (Online)*, NIT Goa link
- **A Comparative Performance Analysis of Classical Genetic Algorithm on Solving 0/1 Knapsack Problem Instances** — *Submitted*