HARSANYA A

📞8148107553 | ✉ harsanya2108@gmail.com | 🔗 <u>LinkedIn</u> | 📍 Karaikudi,TamilNadu

SUMMARY

ECE undergraduate specializing in Embedded Systems, IoT, and programming, with hands-on experience in developing real-time hardware–software solutions. Proven ability to work independently and in teams to deliver accurate, efficient, and innovative projects.

EDUCATION

B.E. – Electronics and Communication Engineering

KPR Institute of Engineering and Technology, Coimbatore | 2023 – 2027

CGPA: 8.88

INTERNSHIPS

Imbed Solutions | Karaikudi,TamilNadu   **Jan 2025 - Feb 2025**

- Developed 3+ IoT monitoring systems (environmental, healthcare, industrial)
- Deployed real-time Blynk dashboards with 99% uptime
- Reduced response time by 40% and false alarms by 35%

Azhizen Solutions | Tiruchengode,TamilNadu   **Jun 2025 - Jul 2025**

- Designed ESP32-based IoT sensor boards in Proteus, reducing board size by 25%
- Identified and corrected 3 routing errors before fabrication
- Implemented FreeRTOS with Embedded C++ for multitasking, reducing power consumption by 30%

PROJECTS

SymptoCare – AI Healthcare Assistant

- Built an AI-based system analyzing patient symptoms with 85% diagnostic accuracy
- Generated diagnosis and care recommendations in <3 seconds
- Tech: Python, ML (Scikit-learn/TensorFlow), Web Tech

ClimaSense – Long-Range IoT Weather System

- Designed a distributed IoT system with 5 sensor nodes
- Achieved stable 8 km LoRa communication
- Tech: ESP32, LoRa SX1278, Blynk, DHT11, SHT20, MQ sensors

SKILLS

Technical Skills

- Programming: Python, C, Embedded C, Java
- Embedded & IoT: ESP32, FreeRTOS, LoRa, Sensors, Blynk, MQTT
- Tools: Proteus, Arduino IDE
- AI/ML: Basics of ML, Model Training, Data Handling

Soft Skills

- Communication & Presentation
- Problem Solving & Critical Thinking
- Team Collaboration
- Adaptability & Quick Learning

ADDITIONAL INFORMATION

- Certifications: NPTEL (Python, Industry 4.0 & IoT), NIELIT (VLSI Basics)
- Achievements: Top 25 – Anna University Hackathon, Top 100 – TNWISE Hackathon, 2nd Prize – Startup Ideathon (CIT)
- Professional Memberships: IEEE Student Member, IETE Member
- Languages: Tamil (Native), English (Fluent), Hindi (Basic)