SUBHASHINI S

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GitHub I LinkedIn I LeetCode |https://leetcode.com/u/Subhashini934/

Education

Nandha Engineering College, Erode-52	Erode
B.E CSE(IoT) 3rd Year	2023 -
CGPA: 8.3	2027

Skills

Programming Languages:	Java basics, HTML, CSS, JS.
Libraries/Frameworks:	REACT git, VS code, Arduino ide, raspberry pi, Proteus.
Tools / Platforms:	KiCad EDA MongoDB, SQL.
Databases:	

Projects I Open-Source

- **Smart Irrigation & Water Management System** — C, Ardunio ide, Esp 32

Designed an automated system for paddy elds using ESP32, soil moisture and water level sensors, and dual pumps. The system maintains optimal water levels by automatically draining excess rainwater during heavy rainfall and supplying water when levels drop, ensuring efficiency irrigation and preventing crop damage.

- **IoT-based Smart Pill Dispenser** — Arduino, ESP32, Servo, Twilio

Built an automated pill dispenser with WhatsApp notifications. Integrated servo motors for dispensing and buzzer alerts for reminders.

- **Bird Species Classification Using Swin Transformer** — python

Developed an AI model for classifying bird species with 98% accuracy. Applied transfer learning with Swin Transformer and built a user-friendly classifier.

- **IoT-Based Smart Grid Monitoring and Control Dashboard**

ESP32, ACS712 Current Sensor, Relay Module, Flask, Python, Chart.js, HTML, CSS, JSON, HTTP, Wi-Fi Communication

Designed a real-time smart grid monitoring system using ESP32 and ACS712 to track voltage and current. Data is sent via HTTP to a Flask server, which serves as a web dashboard that displays live readings with dynamic charts. Implemented secure user authentication, relay control, and data logging features for efficient power monitoring, load management, and real-time analytics. The system features intuitive UI components built with HTML, CSS, and Chart.js for real-time data visualization.

Certifications

Cloud Computing - NPTEL (Swayam).

Journals and patents

participated in the Third International Conference on Artificial Intelligence and Machine Learning Applications (AIM LA) during April 29 - 30, 2025 in K.S.Rangasamy College of Technology .
https://ieeexplore.ieee.org/document/11041630

FLAME CONTROL COATING FOR STRENGTHEN SAFETY MATCHSTICKS
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