Naren Sundar L

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EDUCATION

AMRITA VISHWA VIDYAPEETHAM
B. Tech. in Computer Science and Engineering (Artificial Intelligence)
Aug 2023 - Present | Coimbatore, India
CGPA: 8.38

THE VIJAY MILLENNIUM SENIOR SECONDARY SCHOOL
Dharmapuri, India
HSC/ AISSCE | 2023: 88.4%
SSLC/ AISSE | 2021: 91.8%

COURSEWORK

UNDERGRADUATE
Artificial Intelligence
Machine Learning
Linear Algebra
Probabilistic Reasoning
Computer Networks and IoT
Operating Systems
Object-Oriented Programming
Big Data Analytics
Database Management Systems
Software Engineering
UI/UX Designing

SKILLS

Programming Languages
Java • Python • JavaScript • C • C++
Web & Frameworks
React • Next.js • Node.js • Express.js
Mobile & UI
Flutter • HTML • CSS
Databases
MySQL • MongoDB • PostgreSQL

CERTIFICATIONS

The Complete Web Development Bootcamp (Udemy 2025)
Skills Gained: HTML, CSS, JavaScript, Node.js, Express.js, MongoDB, React, PostgreSQL

PROJECTS

TRASHBOT | Smart Waste Sorting with AI and Robotics
- Built an AI-powered waste classification system using a UFactory Lite 6 robotic manipulator, integrating deep learning for automated sorting.
- YOLO was implemented for real-time object detection using a camera, allowing the robotic arm to classify and sort waste with Python-based control algorithms.
- Improved classification accuracy to 98% by employing an Artificial Neural Network (ANN) to map the detected object's pixel coordinates to robotic arm positions.

INTEL IOT CLUB WEBSITE
- Developed a web platform for the Intel IoT Club to showcase events, projects, and team members.
- Aimed to centralize club activities and improve engagement and accessibility for members and visitors.
- Used React-JS, and Tailwind CSS to create a responsive UI with dynamic content management and an admin dashboard.

CHAT-BOT ON LEUKEMIA
- Utilized a RAG-based system with fine-tuned LLaMA 7B for accurate medical analysis.
- Enhanced leukemia patient care by providing AI-driven personalized support.
- Constructed a model to offer dietary recommendations and medical report insights.

PUBLICATION

Statistical Load Forecasting in Power Systems: A Comparative Study of SARIMA and Prophet Models.
2025 First International Conference on Advances in Computer Science, Electrical, Electronics and Communication Technologies (CE2CT-2025), Graphic Era Hill University, India.
https://doi.org/10.1109/ce2ct64011.2025.10941664

EXPERIENCE

INTEL IOT CLUB | Web Developer
Jan 2025 – Present | Amrita Vishwa Vidyapeetham, Coimbatore
Engineered a React and Node.js-based web UI, enabling users to remotely lock and unlock bicycle stands; supported a 20-user pilot program, achieving 95% system uptime and zero reported access failures.