Arunkumar K

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Education

BE, Computer Science and Engineering at **Chennai Institute of Technology (CGPA: 8.6)** 2023 – 2027
- **Coursework:** Operating System, DBMS, Computer Networks, Ethical Hacking, Data Structures and Algorithm.

Experience

Networking virtual Internship, Cisco , Networking Academy(Remote) May 2024 – July 2024
- Completed a Cisco Networking Academy virtual internship with hands-on experience in IP addressing, core networking protocols, and basic network security concepts within practical networking environments and real-world scenarios.

Research Intern at Chennai Institute of Technology , Chennai Nov 2024 – Dec 2024
- Research paper titled " **Technology and Community Interventions for Food Security and Waste Reduction** " –Analyzed technology-driven and community-based solutions, including mobile food-waste applications and nutrition interventions.
- Research paper titled "**Machine Learning Based House Rental Price Prediction Using Multivariate Regression and Environmental Factors**" – Applied machine learning techniques using property and environmental data to predict rental prices.

Projects

Personal AI Assistant – React, Vite, Node.js, MySQL, Python, pyttsx3, AI APIs github.com
- Built a full-stack personal AI assistant with voice interaction and command-based automation, integrating user authentication, speech processing, and intelligent response handling across frontend and backend systems using modular architecture.

Voice-Enabled Calculator Application – React.js, JavaScript, Web Speech API, Math.js, Tailwind CSS github.com
- Developed a multilingual voice-controlled calculator supporting English and Tamil speech input, enabling real-time expression parsing, accurate computation, and clear spoken result narration for improved accessibility and hands-free user interaction.

S-ARM Control UI – HTML, CSS, JavaScript github.com
- Designed and implemented a web-based control interface for robotic arm and base operations, enabling modular control workflows and real-time interaction through an intuitive and responsive user interface experience seamlessly and efficiently.

Skills

Programming Languages : C++, Java, Python, JavaScript

Frameworks: React.js, Node.js, React Native

Analytics & Developer Tools: Git, GitHub,VS Code,Power BI

Databases: MySQL, MongoDB

Certifications

- **Responsive Web Design Developer Certification** ⧉ – freeCodeCamp, Skills : HTML, CSS, Responsive Design, Accessibility, Web Layouts
- **Cisco Networking** ⧉ – Cisco Networking Academy, Skills : IP Addressing, Networking Fundamentals, Network Protocols, Basic Network Security
- **Data Structures** ⧉ – University of California San Diego (Coursera), Skills : Arrays, Linked Lists, Stacks, Queues, Trees, Algorithmic Thinking
- **Ethical Hacking** ⧉ – NPTEL Swayam, Skills : Cybersecurity Fundamentals, Network Security, Ethical Hacking Concepts
- **Supervised Machine Learning** ⧉– DeepLearning.AI & Stanford (Coursera), Skills: Linear Regression, Classification, Model Evaluation, Machine Learning Fundamentals

Achievements & Publications

- Solved **500+ problems on LeetCode**, achieving a **highest contest rank of 1667** and a **global rank of 172,954** ⧉
- Solved **605+ programming problems on Skillrack**, demonstrating strong problem-solving skills across **Python, C, Java, SQL, and C++** ⧉
- Published a **research paper** titled "Machine Learning Based House Rental Price Prediction Using Multivariate Regression and Environmental Factors" in **IEEE ICKECS 2025 -** IEEE Xplore ⧉
- Published a **research paper** titled "Technology and Community Interventions for Food Security and Waste Reduction" in **ICDSAAI 2025 -** IEEE Xplore ⧉