NEHANITHA SUGUMARAN

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Education

- **B.E Electronics and Communication** 2ND YEAR – Present
  St. Joseph's Institute of Technology, OMR Chennai   CGPA 9.51

- Maharishi vidya mandir, Chennai   HSC-2023-89%
- Sushil Hari International Residential School   SSLC-2021-92%

Achievements

Secured 1st Runner up in Tamil Forest Hackathon for Developing AI-Based Swarm Drone Technology.

- Designed an AI-powered swarm drone system with geofencing and a web application for real-time forest monitoring, automated patrolling, and wildlife protection.

Experience

Internships

- BSNL- Internship on Telecommunication(July 2024)
- BIG-SI-BUCKS INNOVATION PRIVATE LIMITED (Cloud Computing and IT project management) (December 2024)

Technical Skills

- C++
- C
- PYTHON
- JAVASCRIPT
- FRONTEND DEVELOPMENT
- SQL

Projects

AI-Powered Wildlife Protection & Geofencing Alert System

- Developed a web-based platform integrating GPS tracking, geofencing, and an SOS button to monitor elephant movement, provide real-time alerts, and assist authorities in preventing human-elephant conflicts through data visualization and multi-user access.

Autonomous Rover

- autonomous Rover Project Developed an autonomous rover with real- time GPS tracking, obstacle, and pothole detection using advanced sensors. Enabled autonomous navigation across diverse terrains, ensuring reliable performance.

Smart Blind Cane

- Smart Blind Cane Project Engineered a cost-efficient smart cane equipped with ultrasonic and IR sensors for obstacle, pothole, and slippery surface detection. Integrated vibration alerts, audio feedback, and GPS tracking to enhance mobility and safety for visually impaired individuals.

Certifications

- Coursera Meta Frontend Developer
- Infosys Springboard JAVASCRIPT
- Infosys Springboard HTML, CSS, Bootstrap, Networking
- Introduction to Data Science (Cisco Networking Academy)
- Data science for engineers (NPTEL)
- Nasscom future skills prime Digital 101
- CISCO Networking Basics