Nehan G R M

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Education

Amrita Vishwa Vidyapeetham, Coimbatore — B.Tech Computer Science — Aug 2023 – July 2027
- CGPA: 8.42/10

M.K.R.A.J School, CISCE (12th) — Madurai — Completed 2023
- Percentage: 90.2%

M.K.R.A.J School, CISCE (10th) — Madurai — Completed 2021
- Percentage: 92%

Certifications

- Introduction to Machine Learning — NPTEL IIT Madras
- Introduction to Generative AI — Google Cloud Skills Boost
- Cyber Security and Privacy — NPTEL IIT Madras
- HackerRank Certifications: Python (Basic), Java (Basic), SQL (Basic)

Achievements

- Intel IoT Hackathon Participant
- Smart India Hackathon-2024 Participant
- Anokha-2024 Maze Mayhem Participant
- Solved 150+ problems on LeetCode

Projects

NRGK Fashions — Online Clothing Website *Front-End | HTML | CSS | JavaScript* — GitHub
- Built a responsive clothing website using HTML, CSS, and JavaScript with clean UI and smooth navigation.
- Implemented multi-page layout with interactive UI logic; ensured consistent experience across devices.

MARINA — Edge Computing Scheduling Framework *Edge | Scheduling | SUMO* — GitHub
- Developed a mobility-aware task scheduling framework using LSTM prediction and heuristic optimization for offloading decisions.
- Simulated Edge–MEC–Cloud architecture on 700+ vehicles (SUMO + TAPAS Cologne), achieving 91% completion, 40% lower latency, 80% lower cost.

Autonomous Indoor Delivery Robot Simulation *Webots | OpenCV | Robotics* — GitHub
- Simulated an autonomous indoor delivery robot in Webots, implementing navigation and obstacle avoidance.
- Integrated OpenCV vision modules for object detection and path tracking to validate perception + control.

DroneNav-Optimus — Drone Route Optimization Algorithm *Python | A** — GitHub
Pathfinding | QuadTree | Segment Tree
- Implemented an optimized drone routing system using A* pathfinding with obstacle-aware navigation for efficient route planning.
- Integrated QuadTree (static obstacle spatial indexing) and Segment Tree + Min-Heap (dynamic obstacle tracking) to improve real-time path updates.

Technologies

Languages: C, Java, Python
Web Technologies: HTML, CSS, JavaScript, Node.js
Database Management: MySQL, MongoDB
Tools: VS Code, Eclipse, Cursor, MATLAB, TinkerCAD, Webots
Boards: Arduino UNO, ESP32, STM32