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 2022
- Percentage: 90.2%

M.K.R.A.J School, CISCE (10th) — Madurai — Completed 2020
- 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)

Activities

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

Projects

NRGK Fashions — Online Clothing Website — GitHub Repository
- Designed responsive webpages using **HTML & CSS**
- Implemented navigation & UI logic using **JavaScript**
- Ensured clean user-friendly interface across all pages
- **Skills:** Web Development, Front-End Design, Team Collaboration

MARINA — Edge Computing Scheduling Framework — GitHub Repository
- Built a mobility-aware task scheduler using **LSTM prediction** and **heuristic optimization**.
- Designed a **three-layer Edge–MEC–Cloud architecture** enabling low-latency real-time processing.
- Achieved **91% task completion rate**, reduced latency by **40%**, and cut computation cost by **80%**.
- Simulated large-scale scenarios with **700+ vehicles** using SUMO and TAPAS Cologne real mobility traces.
- **Skills:** Edge Computing, Task Scheduling Algorithm, SUMO simulator, Team Collaboration

Autonomous Indoor Delivery Robot Simulation — GitHub Repository
- Simulated an autonomous robot in **Webots** with navigation and obstacle avoidance.
- Applied **OpenCV** for visual perception tasks such as object detection and path tracking.
- Developed and tested robot behaviors in a simulated environment to validate algorithms.
- **Skills:** Webots, OpenCV, Teamwork

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