Neeraj Srinivasan

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EDUCATION

Vellore Institute of Technology, Vellore   2022 – Present
*B.Tech in Electronics and Communications Engineering with specialisation in Biomedical, **CGPA:** 8.51*   *Vellore, India*

DAV Boys Higher Secondary   2020 - 2022
High School, 91.2%   *Chennai, India*

Jawahar Vidhyalaya   2007 - 2020
Senior School, 92.4%   *Chennai, India*

SKILLS

Languages Known: English, Hindi, Tamil, Kannada, German *(Basics)*

Programming Languages: Java,C, Python, JavaScript, MATLAB, SQL

Softwares: Postman, Jupyter Notebooks, MATLAB, Visual Studio

EXPERIENCE

Aries Technologies   June 2024 – July 2024
Embedded Programming Intern ·   *Coimbatore, India*

- Built a Qt-based GUI on the STM32MP7 running Yocto Linux for real-time ECG data visualization (simulated). Cross-compiled the interface and optimized rendering for embedded performance. Contributed to a component intended for integration into a larger medical-grade system.

RC Studios   Feb 2024 – May 2024
Full-Stack Developer ·   *Remote*

- Led the development of a livestream-focused OTT platform using Next.js, PostgreSQL, and Prisma on Vercel. Scaled backend infrastructure with NGINX to support high concurrent users. Delivered an admin dashboard for media uploads and basic studio content management.

RESEARCH PROJECTS

VRU Trajectory Prediction using Adaptive Sensor Fusion   *May 2025 – Present*

- Ongoing research on trajectory prediction for Vulnerable Road Users (VRUs) using adaptive sensor fusion. Currently developing a multi-sensor feature extraction pipeline with encoders in PyTorch, utilizing camera, radar, and LiDAR inputs. Using custom CUDA kernels for efficient data processing.

Smart Automated Irrigation System   *Feb 2024 – July 2024*

- Designed and deployed an automated irrigation controller using soil moisture sensors, water level detection, GPS, and Bluetooth relay communication. Integrated a custom Flutter-based app and API, with findings published in the AIIoT Conference [Link].

CERTIFICATIONS

Machine Learning Specialization — Stanford University   **Data Science** — IBM

Cloud Computing — National Learning   **Software Testing** — National Learning

AWARDS

- **First Place** — Built AgroMetrics, a Flutter application for farmers (2023)

- **Runner-up** — HackWars (Best AI Implementation, 2025), Pixels and Paths (Design Competition, 2024)