Vikneshwari R *Software Engineer*

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Nagapattinam, Tamil Nadu LinkedIn GitHub Portfolio

CAREER OBJECTIVE

As a Software Developer, I aspire to join an organization that offers opportunities to apply my technical skills in Python, java, backend development, and problem-solving. Committed to building scalable, reliable software solutions while continuously learning and contributing to team success.

EDUCATION

Sir Issac Newton College of Engineering And Technology
B.E-Computer Science and Engineering
2022 – 2026

- CGPA**:** 8.58/10.0

Karaikal Ammayar Hr.Sec. School
2020 – 2022 | Karaikal

- HSC - Percentage: 81.8%
- SSLC - Percentage: 82.1%

SKILLS

Programming Language

- Python, Libraries (Numpy, Matplotlib, ML algo)
- Java
- MySQL
- Basic Web development
- UI & UX Design
- OpenAI APIs
- **Tools -** Git and Github | Figma | VS Code | Tabluae

CERTIFICATES

- Speech Recognition Technique From GUVI
- Masterclass On UI & UX
- Arduino Hackathon
- Web Design
- Paper Presentation
- One day national Workshop
- Techno Think
- Deloitte Australia Data Analytics Job Simulation

LANGUAGES

- English (Professional) Tamil (Proficient)

PROJECTS

Project-I AI vs HUMAN VOICE DETECTION
01/2026

- Developed a real-time web application to classify speech as **Human or AI-generated** to address risks in voice-based authentication systems.
- Implemented **MFCC feature extraction** using Librosa for audio signal processing.
- Trained and evaluated **Random Forest** and **KNN classifiers** using Scikit-learn, achieving ~95% accuracy.
- Built a FastAPI backend for low-latency prediction (<1–2 seconds response time).
- Integrated browser-based microphone capture using JavaScript (MediaRecorder/WebRTC).
- Added a confidence score visualization bar to improve prediction interpretability and user experience.
- Deployed the application on Render for public cloud access.

Project-II DIGITAL NOTICE BOARD
08/2025

- **Problem Statement:** Important college announcements are scattered across physical notice boards and various digital channels, resulting in missed information, high manual update effort, and poor mobile accessibility for students.
- **Tools & Technologies:** HTML5, CSS3 , JavaScript .
- **Findings & Results:** The update effort dropped to near zero thanks to real-time content delivery. Student access across desktop + mobile rose by ~50%.

INTERNSHIP EXPERIENCES

FULL STACK WEB DEVELOPMENT
Internship
2025

- Gained foundational web-development skills in HTML, CSS and JavaScript during an internship, building basic UI components and enhancing front-end understanding.
- Collaborated with teammates using GitHub for version control and Trello for task tracking, improving workflow familiarity in an agile environment.