

## Contact info:

 varshaethayan@gmail.com

 6382725474

 39/19 , Mariamman kovil st,  
Kumarasamy pet,  
Dharmapuri. 636701

**LinkedIn:** [LinkedIn Profile]

**Skilrack:** [Skillrack Profile]

## Education

### Bachelor of Engineering in Electronics and Communication Engineering

Velammal Institute of Technology, Ponneri.

2022 - 2026          CGPA: 8.85

### Higher Secondary Education

Sri Vijay Vidyalaya, Dharmapuri.

2020 - 2022          Percentage: 85%

### Secondary Education

Carmel Matriculation School, Dharmapuri.

2019 - 2020          Percentage: 99.4%

## Technical Skills

#### Languages:

- Java
- C
- Python

#### Web Technologies:

- HTML
- CSS
- JavaScript

#### Others:

- Data Structures & Algorithms
- SQL basics

#### Tools & Platforms:

- Git
- VS code
- NS3
- Tableau
- LabVIEW
- MATLAB

## Languages Known

- Telugu
- Tamil
- English

# Varsha .E

Electronics and Communication Engineering student with hands-on experience in software development, system design, and network simulation. Skilled in Python, Java, and web technologies. Strong in problem-solving, team collaboration, and Agile-based workflows with an eagerness to contribute to real-world software development projects.

## Projects

- **mmWave Simulation using NS3** : Simulated a 5G mmWave communication network using the NS3 simulator to evaluate performance metrics under varied network conditions. Designed and analyzed a dynamic network topology with multiple mobile nodes and real-time data flow. Visualized packet transmission and system behavior using NetAnim. Achieved over 97% transmission accuracy with latency <1.8 ms. Extracted key performance indicators like throughput, delay, and packet delivery ratio using simulation logs and graphical analysis. Applied System design thinking and analytical skills through the simulation process [View Project](#)
- **Animal Detection System with YOLO & Raspberry Pi**: Developed and deployed a real-time wildlife detection system using YOLOv3-tiny, Raspberry Pi, Pi Camera, and PIR sensors to monitor animal crossings in rural areas. Achieved 83.7% accuracy for detecting multiple species under varied conditions. Demonstrated skills in Python, image processing, and problem-solving. Explored potential for future integration with smart traffic systems to enhance road safety. Collaborated on team-based feedback and system improvements.
- **Deloitte Technology Job Simulation**: Completed a virtual internship simulation with Deloitte Australia, involving tasks in software development, cybersecurity, and data analysis. Worked through real-world scenarios using Agile methodology and gained exposure to code review practices and cross-functional collaboration, enhancing my ability to solve problems in dynamic team environments. [View Certificate](#)

## Achievements & Certifications

- **1st Place** – Table Tennis & Throwball, 14th Annual Sports Day, Velammal Institute of Technology.
- **2nd Place** – Basketball & Volleyball, 14th Annual Sports Day, Velammal Institute of Technology.
- **C Programming Certification** – Skill rack
- **Java Programming Certification** – Skill rack
- **UI/UX for Beginners** – Great Learning
- **Responsive Web Design Certification** – FreeCodeCamp

## Hackathons & Tech Events

- **Paper Presentation** – “Hydrogen Superhighway”, SIMATS Engineering (DIODEZ 2024)
- **Technical Quiz & Connections** – SIMATS Engineering (DIODEZ 2024)
- **Hardware Hackathon 2.0** – Wildlife Movement Detection using PIR Sensors and Pi Cameras at Prathyusha Engineering College
- **Smart India Hackathon 2024** – Developed GPR-based body detection system for CSSR operations in disaster zones

## Workshop & Volunteering

- Participated in “**NS3 Two-Day Workshop**” – Velammal Institute of Technology
- Attended Webinar on “**Semiconductor Research & Sustainable Disaster Management**” – edu-Care Taiwan
- Contributed as a Volunteer at “**World Robot Olympiad India 2024 – Regional Championship**”, Chennai