# KEERTHANA GNANAMURTHY

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## ABOUT ME

Dedicated and ambitious Electrical and Electronics Engineer with a strong educational background and practical experience in software development. Adept in front-end and back-end technologies and committed to applying design thinking principles to drive innovative solutions within a dynamic environment.

## EDUCATION

- Bachelor of Technology in Electrical and Electronics Engineering | 2022 - 2026
  Sri Manakula Vinayagar Engineering College Pursuing - UG
  CGPA: 7.94 (Till 6th Semester)
- St. Patrick Higher Secondary School 2019 - 2022
  12th grade:73.8%
  10th grade:67.8%

## SOFT SKILLS

- Team work & Leadership
- Logical Thinking
- Problem solving
- Communication Skills
- Time management

## TECHNICAL SKILLS

- UI/UX Designing (Figma, Canva).
- Full Stack Development (HTML, CSS, JavaScript , MySQL ,Java & AngularJS (basic)).
- AutoCAD, MATLAB, Proteus.
- Microsoft Applications ( Power Point, Word & Excel).

## AREA OF INTRESTS

- Control System
- Prompt Engineering.
- Digital Electronics
- Web page Designing

## PROFESSIONAL EXPERIENCE

- Software Developer Intern | Codebuilders, Puducherry March – October 2024
- Event Co-Ordinator | Sri Manakula Vinayagar Engineering College, Puducherry 2023 – Present

## PROJECTS

- Academic Project

**ADVANCED ROAD ASSISTANCE AND ADAPTIVE SPEED MONITORING SYSTEM**

Spearheaded a prototype for an AI-powered “Advanced Road Assistance and Adaptive Speed Monitoring System” for electric two-wheelers, integrating radar, ultrasonic sensors, and Raspberry Pi. Will design and simulate smart safety features using MATLAB and OpenCV to enhance obstacle detection, adaptive speed control, and urban rider safety for budget-conscious users.

**LOW COST 360 LiDAR SCANNING FOR DATA ABSTRACTION USING PYTHON**

Developed a **low-cost 360° LiDAR** scanning using the **SLAMTEC RP - LiDAR** A1M8, generating 2D point cloud data for mapping and localization. Implemented data abstraction and visualization pipelines in Python using UART communication. Successfully demonstrated indoor and outdoor environment modeling with automated plotting and analysis.

## CERTIFICATIONS

- Front-end Technology (HTML, CSS & JAVASCRIPT)
- Delf TP A1 Certification
- Cyber Security and Blockchain Technology Workshops
- MathWorks Model-based Design Challenges
- NPTEL Certification-Introduction to Coding Theory & Programming in JAVA

## LANGUAGES KNOWN

- Tamil(Native)
- English (Read, Write, Speak)
- French (Read, Write, Speak)