

SRINIDHI THIRUKANDALAM KIDAMBI

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EDUCATION

SICA Sr. Sec. School No. 3 Nipania Indore, India
High School (Classes X-XII) - Scored: **94.8%** (Class X), **80.6%** (Class XII) 2021–2023

VIT Bhopal University Bhopal, India
B.Tech in Electronics and Communication Engineering — CGPA: **9.08** 2023 – 2027

EXPERIENCE

Event Management Team Member 2023
EV Club, VIT Bhopal Bhopal, India

- Coordinated and organized technical events and workshops related to electric vehicles and sustainable technology.

PROJECTS

AI Powered Smart Gloves for Real-Time Sign-to-Speech
Raspberry Pi 4B, Flex Sensors, MPU6050 IMU, Python July 2024 – Present

- Designing an AI-driven wearable glove that converts real-time hand gestures into speech output to support assistive communication.
- Implementing gesture recognition using flex sensors for finger movement tracking and MPU6050 IMU for accelerometer and gyroscope-based motion sensing.
- Developing machine learning models in Python/TensorFlow for gesture classification, optimized for on-device inference on Raspberry Pi 4B.
- Integrating TTS (Text-to-Speech) and wireless communication modules (Wi-Fi/Bluetooth) for seamless real-time interaction.

Smart Gloves for People with Speech Disability

- Developed an assistive device using sensors and microcontrollers to translate hand gestures into speech.

Smart Shopping Cart using RFID and Object Detection GitHub Link

- Integrated Raspberry Pi with Firebase for real-time inventory tracking and automated billing.
- Utilized RFID technology for seamless product identification and checkout.

TECHNICAL SKILLS

Programming Languages: Python, C, C++
Embedded Systems: Raspberry Pi, Arduino Uno
Software Tools: MATLAB, TinkerCAD, LTSpice
Domains: Signal Processing & Automation

CERTIFICATIONS

Certificate in AI & Edge Computing for Industry Applications (L&T EduTech)

Embedded Systems (Maven Silicon)

NPTEL IoT – Elite Silver

NPTEL Introduction to C Programming

Bits and Bytes of Computer Networking (Coursera)

MATLAB Fundamentals (MathWorks)

MATLAB Signal Processing (MathWorks)

MATLAB Core Signal Processing (MathWorks)

EXTRACURRICULAR ACTIVITIES

Sports: Badminton and Volleyball

Black Belt in Karate; represented at National Level

SOFT SKILLS

Problem-Solving

Team Collaboration

Leadership & Event Coordination