# PRADEEP EG

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## SKILLS

C, Python, Machine Learning, DSA , System Verilog

## EDUCATION

**SRM INSTITUTE OF SCIENCE AND TECHNOLOGY** — Tiruchirappalli

Bachelor of Technology in Electronics and Communication Engineering - CGPA: 8.2 — 2022–Present

**CHELLAMMAL MATRIC.HIGHER SEC.SCHOOL** — Tiruchirappalli

12$^{TH}$ :78.8 Percentage — 2021–2022

10$^{TH}$ :98.6 Percentage — 2019–2020

## PROJECTS

**LOW POWER TRANSMISSION USING LORA TECHNOLOGY** — JAN-2025

- Low Power Communication System: Implemented long-range, low-power wireless communication using the LoRa SX1276 module interfaced with the STM32F103C6T6 microcontroller for efficient sensor data transmission.
- Robust Connectivity Testing: Evaluated communication performance across varying distances and environments, achieving stable data transfer up to several kilometres and demonstrating suitability for remote monitoring applications.

**FALL AND DETECTION SYSTEM USING NODEMCU AND MPU6050** — JUN-2024

- Real-Time Fall Detection: Designed a system to detect falls and notify caregivers using MPU6050 sensor, with real-time processing on NodeMCU.
- Accurate Motion Analysis: Developed algorithms to differentiate between normal activities and fall events, leveraging MPU6050's precise motion-tracking capabilities.

## EXTRACURRICULAR ACTIVITIES

**IIIT SRI CITY HACKATHON (POWERED BY PLANOTECH GROUP OF COMPANIES)** — DEC-2023

**CURRENTS '24 EVENTS (PRESENTED BY MICRON)** — MAR-2024

Held at the National Institute Of Technology, Tiruchirappalli

**PROBE'24 WORKSHOPS(PRESENTED BY QUALCOMM AND INNOVIANS TECHNOLOGIES)** — FEB-2024

Held at the National Institute of Technology, Tiruchirappalli

**INDUSTRIAL TRAINING AT BSNL** — DEC-2023

Held at Tiruchirappalli

**MSME IDEA HACATHON 4.0** — OCT-2024

**VOLUNTEER AT IDE BOOTCAMP** — SEP-2024

Held at SRM Institute of Science and Technology, Tiruchirappalli

## CERTIFIED COURSES

NPTEL: System Design through Verilog with a Score of 55%

Coursera: Python for Data Science, Databases and SQL for Data Science with Python, Electric Power Systems

Synopsys: Basics of Semiconductor Devices Technology Securing 82% of Mark

## LANGUAGES

Tamil, English