

PRADEEP EG

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SKILLS

C, Python, Machine Learning, DSA

EDUCATION

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|--|-----------------|
| 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

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| SOIL MOISTURE DETECTING SENSOR | MAR-2024 |
| <ul style="list-style-type: none">•Developed a sensor-based agricultural system to monitor soil moisture, temperature, and humidity, ensuring real-time data acquisition for optimizing crop health.•Efficiency Assessment: Tested system reliability across different terrains, achieving a improvement in water usage efficiency and supporting sustainable farming initiatives. | |
| LOW POWER TRANSMISSION USING LORA TECHNOLOGY | JAN-2025 |
| <ul style="list-style-type: none">• Low Power Communication System: Implemented Long range, Low Power wireless communication using the Lora SX1276 module interfaced with 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 kilometers and demonstrating suitability for remote monitoring applications. | |
| FALL AND DETECTION SYSTEM USING NODEMCU AND MPU6050 | JUN-2024 |
| <ul style="list-style-type: none">• 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. | |

EXTRA CURRICULAR ACTIVITIES

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| IIIT SRI CITY HACKATHON (POWERED BY PLANOTECH GROUP OF COMPANIES) | DEC-2023 |
| CURRENTS'24 EVENTS (PRESENTED BY MICRON) | MAR-2024 |
| Held at National Institute Of Technology Tiruchirappalli | |
| PROBE'24 WORKSHOPS(PRESENTED BY QUALCOMM AND INNOVIANS TECHNOLOGIES) | FEB-2024 |
| Held at 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 | |

LANGUAGES

Tamil, English