JAGADEESH V

Location: Chennai
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GitHub: GitHub Repositories
LinkedIn: LinkedIn Profile

Objective

To excel in the field of embedded systems and AI with hard work and dedication, and to become a knowledgeable and skilled professional in this domain.

Skills

- Programming languages – Python, C, C++
- Model Based Development – Model In Loop, Software In Loop, Processor In Loop, Hardware in Loop.
- Embedded Systems
  - Hands on experience with Microcontrollers and Single board computer: Arduino, ESP 32, STM32, Texas Instruments, Raspberry Pi.
  - Embedded Networking
  - FPGA development using VHDL
- Internet of Things
- Data Analytics, Machine Learning and AIOT
- Software Tools: MATLAB / Simulink

Education

- **Master of Engineering - Embedded System Technologies (Pursuing)**
  Rajalakshmi Engineering College, Thandalam, Chennai - 602105.
  Year: 2023 – 2025
  Grade: 8.34 CGPA
- **Bachelor of engineering - Electronics and Communication engineering**
  Vel Tech Multi Tech Dr. Rangarajan Dr. Sakunthala Engineering College, Chennai– 600062.
  Year: 2019 – 2023
  Grade: 7.88 CGPA
- **HSC/12th**
  Velammal Matriculation Higher Secondary School, Surapet, Chennai -600 066
  Year: 2018 – 2019
  Grade: 65%
- **SSLC/10th**
  Velammal Matriculation Higher Secondary School, Surapet, Chennai -600 066
  Year: 2016 – 2017
  Grade:84%

Projects

- **Ongoing Project – Battery Management System Using Digital Twin Technology**
  To create a digital twin of a physical battery system to monitor, simulate, and predict its behaviour under various conditions.
- **Multiple disease prediction system using machine learning**
  Created a software-based site consisting of various machine learning models trained with historical data to predict diseases early.
- **Real-Time Speed Breaker Detection for Visually Impaired Using AIOT**
  Developed a system that utilizes AIOT technology to detect speed breaker in real-time and alert visually impaired individual, enhancing their safety and mobility.
- **Real-Time Gas and Oil Pipeline Leakage Prediction Using Machine Learning**
  Developed a real-time monitoring solution leveraging Machine Learning to predict leakage in gas and oil pipelines.
- **IoT- Based Bank Locker Security System**
  Designed and IoT- based security system for bank lockers, integrating sensors and real- time alerts to enhance security and prevent unauthorized access.

Publications

- Jagadeesh. V, "**Enhancing Bank Locker Security through Multi-Layered Authentication and IoT Integration**", 2024 IEEE Recent Advances in Intelligent Computational Systems (RAICS), **DIO: 10.1109/RAICS61201.2024.10689894**, 2024.Link
- Jagadeesh. V, "**Cardiovascular Disease Prediction Using Extreme Gradient Boosting Algorithm**", IEEE 2023 second International Conference on Advances in Computational Intelligence and Communication (ICACIC), **DIO:10.1109/ICACIC59454.2023.10435219**, 2023.Link

Certifications

- Embedded Systems – NSIC
- Data Science virtual internship (3 months) - Shiash Info Solutions Pvt Ltd
- Business Analytics - Intershala
- Digital analytics and Regression – IBM

Hobbies

- Hands on experiments with Microcontrollers.
- Doing projects and writing research papers.

Declaration

I hereby declare the above information are true to the best of my knowledge.