VIGNESH M

Highly motivated and technically adept engineering student with a strong foundation in programming, data structures, and algorithms. Proven experience in software development, machine learning, and IoT projects, with a demonstrated ability to lead teams and solve complex problems.

✉ vigneshstudent2005@gmail.com

📍 Kovaipudur, Coimbatore, India

📱 8148385360

🔗 linkedin.com/in/vignesh-m-2a7028248

EDUCATION

Bachelor of Engineering in Electronics and Communication
Sri Krishna College of Engineering and Technology
10/2022 - Present   *Coimbatore, CGPA - 8.27*

Higher Secondary
Sri Sowdeswari Vidyalaya Matriculation Hr. Sec School
06/2020 - 06/2022   *Coimbatore, Grade - 93%*

SKILLS

C Programming · C++ · JAVA · Data Structures and Algorithms · Python · Machine Learning · HTML · CSS · JavaScript · Object Oriented Programming · MySQL · Linux · Arduino · Analog and Digital Electronics · Node MCU · Raspberry Pi · Proteus · MultiSim

PROJECTS

AI-Powered Reservoir Management for Flood Prevention (09/2023 - 10/2023)
- Advanced reservoir management solution to improve **flood prevention** capabilities.
- The system seamlessly integrates **Internet of Things** (IoT) sensors for real-time data collection, a **LoRa network** for efficient data transmission
- Implemented **Machine Learning** models (**LSTM, XGBoost, Random Forest**) for data analysis and **predictive flood forecasting**. **This enables proactive reservoir management strategies, minimizing flood risks.**

Accident Detection and Alert System with LoRa Mesh Network (03/2024 - 05/2024)
- Innovative Accident Detection and Alert System utilizing a **Hybrid LoRa Mesh Network**
- The system uses an **accelerometer** to detect sudden changes in movement and predict the accident by using predefined algorithm.
- Upon detection of accident the system transmits the accident location through the LoRa Mesh Network, **ensuring reliable and long-range communication even in remote areas.**

WORK EXPERIENCE

Intern
Luker Electric Technologies Pvt. Ltd.
07/2024 - 08/2024
Chettipalayam, Coimbatore
Tasks
- Conducted ISI standard safety tests for 20+ fans
- Assisted in PCB circuit design and microcontroller programming for an upcoming BLDC fan model

ACHIEVEMENTS

LeetCode - https://leetcode.com/u/vigneshtheprogrammer/ ⧉
Demonstrated strong problem-solving skills by solving 300+ coding challenges on LeetCode, a leading online coding platform

HackerRank- https://www.hackerrank.com/profile/vignesh_student1 ⧉
Earned Gold and Silver badges on HackerRank, a recognized platform for coding assessments, showcasing proficiency in C++ and C programming.

Team Leader - Smart India Hackathon Selection
Led a team selected among the top 30 in college through an internal hackathon to participate in the Smart India Hackathon 2023.

CERTIFICATES

Infosys Certification on JAVA FOR BEGINNERS (11/2023)

MONGODB AND THE DOCUMENT MODEL (09/2023)

INTRODUCTION TO CYBERSECURITY by Cisco (01/2024)

NPTEL course on ENHANCING SOFT SKILLS AND PERSONALITY (02/2023 - 04/2023)

NPTEL course on ETHICS IN ENGINEERING PRACTICE (02/2024 - 04/2024)

LANGUAGES

English
Full Professional Proficiency

Tamil
Full Professional Proficiency

Telugu
Professional Working Proficiency

Hindi
Professional Working Proficiency