FAWAZ AHMED

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LinkedIn Profile | Github Profile

Chennai,Tamil Nadu-India

OBJECTIVE

Highly-Motivated individual with a strong desire to take on new challenges. Adept at working effectively unsupervised and quickly mastering new concepts.Seeking an entry-level role to apply knowledge and hands-on experience to contribute to innovative projects and real-world problem-solving. Quick learner with a strong work ethic and adaptability.

EDUCATION

- **Vellore Institute of Technology(VIT)** *May 2025*
  B.Tech Electronics and Communication Engineering Chennai, India
- **Ideal Indian School** *May 2021*
  Secondary Education Doha, Qatar

PROJECTS

- **IoT-Based Drinking Water Quality Monitoring System** *March 2024 - May 2024*
  Tools: ESP32, TDS/EC Sensor, DS18B20 Sensor, OLED Display, Thingspeak IoT Platform [GitHub]
  - Developed an IoT-based system to monitor drinking water quality by measuring electrical conductivity and temperature, and implemented real-time data transmission to the Thingspeak platform by integrating ESP32 with TDS/EC and DS18B20 sensors.
  - Created a display for water quality parameters on an OLED screen, ensuring compliance with WHO standards for safe drinking water, and applied sensor integration techniques to analyze water quality parameters.
- **Real-Time Prediction and Optimization of Solid Waste Generation Patterns** *August 2024 - November 2024*
  Tools: Python, Google colab, Kaggle Datasets [GitHub]
  - Developed a predictive and optimization framework for urban solid waste management using SARIMA, XGBoost, and Meta-Regressor, achieving high accuracy in forecasting waste generation patterns and optimizing waste collection schedules.
  - Implemented real-time data processing and feature engineering using Kaggle datasets, handling large-scale time-series data to support decision-making and improve model performance with Optuna-based hyperparameter tuning.
- **Temperature Controlled Fan Using Arduino** *March 2024 - May 2024*
  Tools:Arduino Uno, DHT11 sensor, 16x2 LCD, DC Fan, potentiometer, Arduino IDE [GitHub]
  - Developed an energy-efficient fan system using Arduino technology, featuring real-time monitoring, dynamic speed adjustment, and user interface elements for versatile applications in various environments.
  - The system's modular design allows for scalability and customization, demonstrating the potential for practical applications in temperature regulation for server rooms, households, and industrial settings.

SKILLS

- **Programming Languages:** C, Python
- **Cloud Technologies:** AWS (Amazon Web Services)
- **DevOps & Version Control:** Git, Github
- **Mathematical & Statistical Tools:** Matlab-Simulink
- **Other Tools & Technologies:** Visual Studio Code(VSC),Microsoft Office Suite (Word, PowerPoint)

CERTIFICATIONS

- **AWS Certified Cloud Practitioner (AWS CP)** *February 2024*
- **AWS Certified Solutions Architect – Associate (SAA)** *October 2024*
- **MATLAB Onramp** *July 2023*