

FAWAZ AHMED ANWAR BATCHA

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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
◦ 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
◦ 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
◦ 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.
- Voice-Controlled and Obstacle-Avoiding Robotic Car** March 2024 - May 2024
Tools: Arduino UNO, HC-05, ultrasonic sensor, L298N, DC motors, MIT App Inventor, Arduino IDE.
◦ Developed a voice-controlled robotic car, equipped with an Arduino UNO, HC-05 Bluetooth module, and ultrasonic sensors, uses Google Speech Recognition for wireless control and autonomous navigation.
◦ The project showcases seamless human-robot interaction, safe navigation, and modular design, showcasing integration of robotics, IoT, and automation technologies for scalability and future enhancements.

SKILLS

- Programming Languages:** C, Java
- 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

LANGUAGES

English (Upper Intermediate)
Tamil (Native/Bilingual)