

# SHEIKH FAHEEM AHMED

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Portfolio :- <https://sheikh-faheem.github.io/portfolio/>

## PROFESSIONAL SUMMARY

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Engineering undergraduate with strong foundations in Software Development, System Analysis, and Automation. Skilled in Python, Java, and SQL for building scalable solutions and integrating complex systems. Seeking to leverage strong analytical skills and backend development experience as an Infrastructure Specialist at Kyndryl.

## EDUCATION

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### SHRI MADHWA VADIRAJA INSTITUTE OF TECHNOLOGY & MANAGEMENT

Bachelor of Engineering in AI/ML

Bantakal, Udupi

Expected Aug 2026

Cumulative GPA: 8/10

Relevant Coursework: Data Structures, Software Engineering, Operating Systems, Algorithms, Artificial Intelligence, Database Management Systems.

## SKILLS

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**Scripting & Automation:** Python, Java, C, JavaScript, Dart.

**Backend & Databases:** MySQL, MongoDB, Node.js, Flask, PHP.

**Operating Systems:** Linux, Windows (Foundations from coursework).

**Tools & Version Control:** Git, GitHub, VS Code, Power BI, Tableau, Microsoft Excel.

**Web & AI Frameworks:** React JS, Flutter, Bootstrap, TensorFlow, PyTorch, scikit-learn, Pandas.

## CERTIFICATIONS

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- **C Programming (Code Chef)**
- **Introduction to Generative AI (Google Cloud Skills Boost)**
- **Introduction to Large Language Models (Google Cloud Skills Boost)**

## PROJECTS

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### SMART ELECTRICITY CONSUMPTION MONITORING SYSTEM

Technologies: ESP32, PZEM-004T, Python (Flask), Socket.IO, Isolation Forest (Scikit-learn), Chart.js  
Present - Completed

- **Architected an end-to-end IoT infrastructure** integrating ESP32 microcontrollers and PZEM-004T sensors, engineering a low-latency (<1s) data pipeline that transmits real-time telemetry to a custom Flask backend via JSON/HTTP.

- Developed an automated **anomaly detection engine** by integrating a trained Isolation Forest model (selected over LOF and OCSVM after rigorous comparative analysis) to instantly identify power spikes and faulty appliance behaviour.
  - Deployed a **real-time operational dashboard** using Socket.IO and Chart.js, enabling live visualization of voltage/current metrics and implementing an instant alert system for critical threshold breaches.
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## CANTEEN MANAGEMENT SYSTEM (QR VERIFICATION)

Technologies: Python, Flask, MySQL, PHP, JavaScript

Dec 2024

- Designed a relational database architecture (MySQL) to manage high-volume transactional data, ensuring data integrity for real-time inventory tracking and order processing.
  - Engineered a secure Role-Based Access Control (RBAC) system, implementing strict authentication protocols to separate administrative privileges from user access.
  - Integrated an automated QR verification workflow to validate orders instantly, streamlining the fulfilment process and eliminating manual redundancy in service operations.
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## CAREERWISE - AI DRIVEN CAREER COUNSELLING PLATFORM

Technologies: Node.js, SQLite, React

Sep 2024

- Developed a logic-driven backend system using Node.js and SQLite to process complex user assessment data and generate automated, rule-based career path recommendations.
- Engineered a multi-stage data acquisition workflow, optimizing the logic for user profile creation and assessment scoring to ensure accurate data handling for the recommendation engine