

MOHD. FARAAZ KALIM

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Profile

A motivated Computer Science student with a focus on full-stack web development, AI, and knowledge of IoT by working on academic projects. Gained knowledge of React, PHP, and MongoDB through projects. I would like to implement what I have learned in the real world and keep getting better at my technical skills.

Education

B.Tech in Computer Science & Engineering (DS&AI) Integral University, Lucknow *GPA: 2.8*
— Graduated: 11/2025

Projects

Smart Meter Developer Mar 2024 – Apr 2025
• Built a real-time energy monitoring system using Arduino, ESP8266, Firebase, and MongoDB.
• Designed a customized dashboard using Django and Chart.js to display live data and send SMS notifications using Twilio.
• Provided scalability and precision with dual-database design and sensor calibration.

PG-Life – Full Stack PG Recommendation Platform Jul 2024 – Aug 2024
• Developed a full-stack web app for PG/Hostel recommendations using React.js, Node.js (Express), MongoDB Atlas, and Tailwind CSS.
• Implemented JWT authentication, search & filter, favorites, bookings, and reviews modules for Seekers and Owners.
• Built a recommendation engine suggesting PGs based on city, budget, and amenities.
• Deployed the frontend on Vercel and backend on Render ensuring full cloud scalability and responsiveness.

Academic Projects

- **Basic Access Control System:** Created a role-based login system to allow for an appreciation of user authentication and access control.
- **Data Visualization:** Developed a static dashboard with Chart.js to display example datasets and improve front-end integration skills.
- **Task Management Tool:** Built a command-line application for task assignment and tracking, showcasing problem-solving abilities in Python.
- **IoT Integration:** Used Arduino and sensors to collect, process, and display real-time energy data, exploring IoT data processing and basic sensor interfacing.

Publications

- **Behavioral Nudges and Predictive Analytics: Enhancing Energy Conservation Through IoT-Enabled Smart Metering**
2025 (In Progress)
Suhail Siddiqui, Mohd Faraz Kalim, Saleha Mariyam
Presented at ICBDAIT 2025, Andaman and Nicobar, India
Publication in progress – notification expected by end of August 2025

- **Real-Time Monitoring and Data Management for Smart Meter using IoT and Cloud Technologies**

2025 (In Progress)

Suhail Siddiqui, Mohd Faraz Kalim, Saleha Mariyam, Kavita Agarwal

Presented at DSAI 2025, MMMUT Gorakhpur

Accepted for publication in Springer – final stage of processing

Technical Skills

- **Languages:** Basic Python, Java, JavaScript
 - **Libraries / Framework:** React, Django, Bootstrap, Tailwind CSS
 - **Tools / Platforms:** Git, GitHub, VS Code, Arduino IDE, Node, ChatGPT, Gemini, Perplexity, Overleaf, Twilio
 - **Markup Languages:** HTML, CSS, LaTex
 - **Databases:** MySQL, MongoDB, Firebase
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Certifications

- Data Science & Artificial Intelligence – Integral University
 - Data Fundamentals – IBM
 - Cybersecurity Fundamentals – IBM SkillsBuild
 - Data Science 101 – IBM
 - Digital Analytics & Regression – IBM
 - Machine Learning with Python – IBM / Integral University
 - Web Development Training – Internshala
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Achievements & Recognitions

- Letter of Recommendation (HOD) – Shish Ahmad
 - Letter of Recommendation – Manish M. Tripathi
 - Letter of Recommendation – Mohd Haroon
 - Letter of Appreciation
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Languages

- **English:** Intermediate
- **Hindi:** Native