ISHRAQ SAMIHA

+8801795927580 ishraqsamiha60@gmail.com
linkedin.com/in/ishraq-samiha github.com/isssh23

Professional Summary

Strong desire to learning and passionate about both research and teaching. I have consistently performed well in school, and I am committed to maintaining my high academic standards. My ability to solve problems and my solid subject knowledge give me the confidence I need to tackle projects. I enjoy applying my expertise to real-world issues and taking on new challenges. My goal is to make a positive impact on society and students through significant academic work, innovative research, and exceptional teaching.

Education

Chittagong University of Engineering and Technology *Feb, 2020 – Jun, 2025*
BSc in Computer Science and Engineering *CGPA: 3.72 / 4.00*
Chittagong College *2019*
Higher Secondary Certificate (HSC) *GPA: 5.00 / 5.00*
St. Scholasticas' Girls' High School, Chittagong *2017*
Secondary School Certificate (SSC) *GPA: 5.00 / 5.00*

Work Experience

Southern University Bangladesh *July 2025 – Present*
Lecturer Dept. of CSIT *Chittagong Bangladesh*

- Teaching **Algorithm Design and Analysis, Artificial Intelligence, Compiler Design, Mobile App Development, System Analysis and Design**. I am also taking lab classes for these courses, in addition to the theory.

Technical Skills

- **Languages:** C, C++, Python, JavaScript, Solidity
- **Frameworks and Libraries:** React, Node.js, Hyperledger Fabric, Ethereum, PyTorch, Scikit-learn, Matplotlib, Pandas
- **Databases:** MySQL
- **Tools:** Git, Docker

Projects

A web project: Website of Sheikh Kamal IT Business Incubator *HTML, CSS, JavaScript, MYSQL*
June 2022 – August 2022

- Developed a user-friendly web system to help travelers in Bangladesh to get accurate and reliable information about the country. We have made a website named "Innovation Hub".

Python project: A voice assistant *Python, Jupyter Notebook*
October 2023 – December 2023

- A voice assistant is a digital interface that responds to spoken commands, providing users with information, performing tasks, or controlling devices. These intelligent systems, such

as Siri, Google Assistant, or Amazon Alexa, leverage natural language processing to understand and interpret user voice queries.

Research Experience

A Blockchain Enabled Process Adaptation Framework for E-Waste Resource Recovery *2024 - 2025*
Undergraduate Thesis Research *CUET*

- Supervised by **Dr. Rahma Bintey Mufiz Mukta** and **Md. Shafiul Alam Forhad**. Using smart contracts and dynamic process adaptation, this work optimized e-waste resource recovery, ensuring transparency, automation, and sustainability.
- This work has been accepted for presentation at the 9th Symposium on Distributed Ledger Technology (SDLT 2025), Melbourne, Australia. And will be published in Springer's CCIS.

Blockchain-Based Solutions for E-Waste Management: A Review of Opportunities and Challenges. *2024*

- This work has been accepted at the IEEE International Conference on Interdisciplinary Approaches in Technology and Management for Social Innovation (IATMSI-2025), Gwailor, India (1st Author).
  DOI: 10.1109/IATMSI64286.2025.10985377

Multi-Blockchain Backup & Restore System with Zero-Knowledge Proofs (ZKPs). *2024*

- This work has been accepted at the IEEE 2nd International Conference on Next-Generation Computing, IoT, and Machine Learning (NCIM 2025). (1stAuthor)
  DOI: 10.1109/NCIM65934.2025.11160331

AI-Based Image Classification and Conservation of Endangered Bird Species in Bangladesh. *2024*

- This work has been accepted at the International Conference on Artificial Intelligence and Cognitive Science for Emerging Technologies (AICSET 2025), Marrakech, Morocco. Additionally, it was accepted for presentation at IEEE QPAIN 2025. (1st Author)

A Hybrid Deep Learning Approach For Dialect-Specific Sentiment Analysis of Bangla Regional Linguistics. *2024*

- This work has been accepted at the IEEE 2nd International Conference on Next-Generation Computing, IoT, and Machine Learning (NCIM 2025). (1stAuthor)
  DOI: https://doi.org/10.1109/NCIM65934.2025.11160009

A Feasibility Study of Hybrid Hydrokinetic and Solar Power Generation at Bandarban Hill Tracts for Off-Grid Communities.. *2024*

- This work has been accepted at the 4th International Conference on Electrical, Computer, Communication (ECCE 2025). (5thAuthor)
  DOI: 10.1109/ECCE64574.2025.11013980

Internship and Training

- **Industrial Attachment (Internship)** Softrobotics Bangladesh Limited
  - SQL Fundamentals: Data management with Laragon
  - Laravel Framework: MVC, Eloquent ORM, routing

  - Access Control & Design: ACLs and secure databases
  - Project Development: Telemedicine platform with RBAC
  - Version Control & Deployment: Git, GitHub, and hosting

- **C# and .NET Training** CUET Edge Course
  - Learned C# fundamentals, object-oriented programming, and commonly used data structures.
  - Gained practical skills in building web apps using ASP.NET Web Forms and ASP.NET 6.0 with SQL Server integration.
  - Explored advanced topics like authentication, Entity Framework, Web APIs, and BI tools like SSRS and RDLC.
  - Completed real-time data handling, deployment strategies, and a full-stack project implementation.

Competition and Awards

- Finalist in **Blockchain Olympiad Bangladesh 2024(BCOLBD)**
- Finalist in IEEE CUET Student Branch **FACE THE CASE 2.0**

References

Dr. Rahma Bintey Mufiz Mukta
Assistant Professor, Dept. of CSE
Chittagong University of Engineering and Technology
Email: rahmamukta@cuet.ac.bd
Contact: +880 1713-018506

Md. Shafiul Alam Forhad
Assistant Professor, Dept. of CSE
Chittagong University of Engineering and Technology
Email: forhad@cuet.ac.bd
Contact: +880 1841-981041