

TAHIA HOQUE

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Location: Road no.13, Sector-7, Uttara, Dhaka



Professional Summary

A committed Computer Science and Engineering graduate with expertise in data structures, algorithms, and software development. Proficient in machine learning, neural networks, React.js, Java Spring Boot, and cloud technologies. Experienced in collaborative projects, teaching assistance, and published blockchain research. Currently in the final semester of a Master's in Cyber Security.

Education

- Master of Cyber Security (MCS), Bangladesh University of Professionals (BUP)
CGPA: 3.58 (Up to 3rd semester) | Expected Graduation: Dec 2025
- B.Sc. in Computer Science and Engineering, International Islamic University Chittagong
CGPA: 3.754 | Graduated: 2024
- Higher Secondary Certificate (HSC), Govt. Women College, Chittagong
Group: Science | GPA: 4.17 | Year: 2018
- Secondary School Certificate (SSC), BMS Girls' High School & College
Group: Science | GPA: 5.00 | Year: 2016

Research & Publications

Hoque, T. (2024). Blockchain Applications in Industry 4.0. 27th International Conference on Computer and Information Technology (ICCIT), Cox's Bazar, Bangladesh.

DOI: <https://ieeexplore.ieee.org/abstract/document/11022437>

Skills

- **Research & Academic Contributions:** Peer-reviewed publications, conference presentations, proposal writing, interdisciplinary collaboration, research methodology
- **Programming & Development:** C, Python, JavaScript, HTML, CSS, Java
- **Database & Systems:** MySQL, Operating Systems, Computer Networks
- **Frameworks & Tools:** React.js, Java Spring Boot, GitHub, ZAP, Nessus, AWS
- **Advanced Technologies:** Machine Learning, Artificial Intelligence, Neural Networks, Hyperledger Fabric Blockchain, Cloud Computing, Cybersecurity
- **Soft Skills:** Leadership, Communication, Problem-Solving, Critical Thinking, Team Collaboration
- **Languages:** English (Professional Proficiency), Bangla (Native)

Experience

Undergraduate Teaching Assistant – IIUC

Digital Logic Design Lab (CSE-2324) | Jul – Dec 2021

- Assisted students in lab sessions, clarified digital logic concepts, and guided practical experiments. Evaluated assignments and supported faculty in managing course delivery.

Core Competencies

- **Software Development:** React.js, Java Spring Boot, and MySQL
- **Programming Expertise:** Proficient in Python, C, JavaScript, HTML, CSS, SQL
- **Machine Learning & AI:** Supervised and unsupervised learning, neural networks (RNN, LSTM), model optimization
- **Cybersecurity:** Vulnerability assessment, penetration testing, ZAP, Nessus, security fundamentals
- **Cloud Computing:** AWS cloud services, deployment, and management
- **Blockchain:** Hyperledger Fabric, smart contracts, decentralized applications
- **Collaboration & Leadership:** Team-based project development, teaching assistance, and mentoring
- **Research & Publications:** IEEE-published research in blockchain applications

Projects

1. Heart failure clinical records-Machine-Learning-project

- Implemented models including Logistic Regression, Decision Tree, KNN, LDA, Naïve Bayes, SVM, Random Forest & XGBoost.
- Improved classification accuracy using ensemble methods.

2. Predict Electricity Consumption/Neural-Network-Projects

- Applied LSTM and RNN for time-series prediction.
- Achieved higher accuracy with LSTM compared to RNN.

3. Online Job-Portal-with-React-JS:

- Developed a full-stack job portal with user registration, job search, applications, and status tracking.
- Built with **React.js, JavaScript, HTML, CSS**.

4. ToDo App/React-Projects:

- Created a task management app with date-based task tracking.

Extracurricular & Leadership

- Active Member, Computer Club, IIUC
- Volunteer in academic and community events

Hobbies

Writing stories , Reading books , Henna Design, Photography

References

1. Mr. Abdullahil Kafi, Assistant Professor, IIUC
Phone: 01720155585 | Email: ab_kafi@yahoo.com
2. Mrs. Subrina Akter, Assistant Professor, IIUC
Phone: 01817751583 | Email: subrina_30@yahoo.com