

# Md. Motaleb Hossen Manik

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Contact	Fulbari Gate, KUET, Khulna, Bangladesh	<b>Cell No.:</b> +880-1722136214 <b>E-mail:</b> mh.manik@cse.kuet.ac.bd
Career Objective	Looking for a career to demonstrate my professional ability, research thinking, and strategies to improve my knowledge and to contribute to the best of my potential.	
Research Interests	Machine Learning, Deep Learning, Natural Language Processing, Decision Support, Recommendation System with Information Security, and Blockchain.	

## Academic Credentials

April 2023	<b>M.Sc. in Computer Science and Engineering</b> Khulna University of Engineering & Technology, Khulna, Bangladesh <b>Result:</b> CGPA 4.00 out of 4.00 <b>Advisor:</b> Prof. Dr. Kazi Md. Rokibul Alam <b>Thesis:</b> A Study on a Blockchain-Based Secure Framework for Multi-party Skyline Queries.
March 2020	<b>B.Sc. in Computer Science and Engineering</b> Khulna University of Engineering & Technology, Khulna, Bangladesh <b>Result:</b> CGPA 3.93 out of 4.00 (Average GPA 4.00 in last three semesters) <b>Position:</b> 1 <sup>st</sup> out of 134 students

## Teaching Experience

February 2022 to Present	Khulna University of Engineering & Technology, Khulna, Bangladesh Lecturer  <b>Courses Taught Since 2022</b> <ul style="list-style-type: none"><li>• CSE 3217: Mobile Computing<ul style="list-style-type: none"><li>○ Course Instructor, Handled the theory part of the course</li></ul></li><li>• CSE 4120: Technical Writing and Seminar<ul style="list-style-type: none"><li>○ Lab Instructor, Handled the sessional part of the course</li></ul></li><li>• CSE 4223   CSE 4224: Digital System Design<ul style="list-style-type: none"><li>○ Course and Lab Instructor, Handled both theory and sessional</li></ul></li></ul>
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## Research Experience

<b>Machine Learning and Deep Learning</b>	Conducted <b>Predicting</b> : Sentiment in Bangla text, COVID-19 from human genomic data, Areas to lockdown in any pandemic, <b>Detection</b> : Facial mask from CCTV footage by CNN architecture, AI-generated assignments in educational institutions, <b>Adversarial ML</b> : Proposed defensive approaches against adversarial attacks on ML algorithms. Overall published <b>4 conference papers</b> and several manuscripts are under review.
<b>Natural Language Processing</b>	Conducted <b>Sentiment Analysis</b> on Bangla text, and published <b>2 conference papers</b> related to NLP. In the first paper, proposed a framework to perform <b>Sentiment Analysis</b> by incorporating NLP tools and Machine Learning algorithms. In the second paper, proposed a hybrid framework to perform <b>Sentiment Analysis</b> with NLP tools and a Rule-based approach. Additionally, several manuscripts are under review.
<b>Information Security and Blockchain</b>	Conducted <b>Decision Support System</b> , <b>Recommendation System</b> , and <b>Information Retrieval System</b> using <b>Secure Skyline Queries</b> . Utilized Blockchain technology for <b>Document Verification</b> and <b>Crime Record Storage</b> . Overall published <b>2 conference papers</b> and several manuscripts are under review.

## Publications

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### Journals

- 2023      1. **Md. Motaleb Hossen Manik**, "A Novel Approach in Determining Areas to Lockdown during a Pandemic: COVID-19 as a Case Study", International Journal of Information Engineering and Electronic Business, 13(2), 30.
- 2021      1. Rahman, M.M., Islam, M.M., **Md. Motaleb Hossen Manik**. et al. "Machine Learning Approaches for Tackling Novel Coronavirus (COVID-19) Pandemic", SN Computer Science Vol. 2, Issues. 5, 384, 2021.

### Conferences

- 2023      1. M. A. Habib, **Md. Motaleb Hossen Manik** and S. Zaman, "A Blockchain-based Technique to Prevent Grade Tampering: A University Perspective," 2023 International Conference on Electrical, Computer and Communication Engineering (ECCE), 2023.
- 2022      1. **Md. Motaleb Hossen Manik**, F. Haque, M. M. A. Hashem, M. A. Habib, M. Zahirul Islam and T. Ahmed, "A Hybrid Framework for Sentiment Analysis from Bangla Texts," 2022 25th International Conference on Computer and Information Technology (ICCIT), 2022.
2. **M Md. Motaleb Hossen Manik**, K. Md. Rokibul Alam and Y. Morimoto, "A Blockchain Based Secure Framework for User-centric Multi-party Skyline Queries," 2022 25th International Conference on Computer and Information Technology (ICCIT), 2022.
3. **Md. Motaleb Hossen Manik**, M. A. Habib and T. Ahmed, "Machine Learning Algorithms on COVID-19 Prediction Using CpG Island and AT-CG Feature on Human Genomic Data", Machine Intelligence and Emerging Technologies, MIET 2022, Lecture Notes of the Institute for Computer Sciences, Social Informatics and Telecommunications Engineering, vol 491. Springer, Cham, 2022.
- 2020      1. M. M. Rahman, **Md. Motaleb Hossen Manik**, M. M. Islam, S. Mahmud and J. -H. Kim, "An Automated System to Limit COVID-19 Using Facial Mask Detection in Smart City Network," 2020 IEEE International IOT, Electronics and Mechatronics Conference (IEMTRONICS), 2020.
- 2019      1. F. Haque, **Md. Motaleb Hossen Manik** and M. M. A. Hashem, "Opinion Mining from Bangla and Phonetic Bangla Reviews Using Vectorization Methods," 2019 4th International Conference on Electrical Information and Communication Technology (EICT), 2019.
- Submitted Manuscripts**      1. **Md. Motaleb Hossen Manik**, Fabliha Haque, Md. Ahsan Habib, Md. Zahirul Islam and Tanim Ahmed, "Unlocking Sentiments in Bangla Texts: A Rule-based Approach for Precise Analysis" in Expert Systems with Applications Journal (**Decision in Process**) [**Impact factor: 8.5, Q1**].
2. Md. Ahsan Habib and **Md. Motaleb Hossen Manik**, "ShaEr: A Blockchain-based Framework for Secure Medical Data Sharing and Monetization" in Expert Systems with Applications Journal (**Under Review**) [**Impact factor: 8.5, Q1**].
3. Md. Ahsan Habib and **Md. Motaleb Hossen Manik**, "Blockchain-Enabled Secure Land Record Management System with a new Lightweight Cryptosystem based on Hybrid Chaotic Map" in Knowledge-Based Systems (**Submitted**) [**Impact factor: 8.8, Q1**].
4. **Md. Motaleb Hossen Manik**, Zarif Mahadi, Md. Mossadek Touhid and Kazi Md. Rokibul Alam, "Enhancing Robustness of Machine Learning Algorithms for Bangla Text

**Classification: A Defensive Approach against Adversarial Attacks**” in 6th International Conference on Electrical Information and Communication Technology 2023. (Submitted).

5. **Md. Motaleb Hossen Manik**, Md. Zahirul Islam, Md. Ahsan Habib, Tanim Ahmed, Fableha Haque, Farhan Sadaf, Anite Sagor and Zarif Mahadi, “**Analyzing the Dynamics of COVID-19 Lockdown Success: Insights from Regional Data and Public Health Measures**” in 6th International Conference on Electrical Information and Communication Technology 2023. (Submitted).
6. **Md. Motaleb Hossen Manik**, Anite Sagor, Md. Ahsan Habib, Md. Mossadek Touhid, Tanim Ahmed, Md. Zahirul Islam and Fableha Haque, “**Redefining Crime Record Storage: An Advanced Architecture Harnessing the Power of Blockchain Technology**” in 26th International Conference on Computer and Information Technology. (Submitted).
7. Md. Shahidul Salim, Hasan Murad, **Md. Motaleb Hossen Manik** and Md. Ahsan Habib, “**Detecting AI-Generated Assignments in Educational Evaluation: A Transformer-Based Approach**” in 6th International Conference on Electrical Information and Communication Technology 2023. (Submitted).
8. Sourab Majumder, Resam Zaha, **Md. Motaleb Hossen Manik** and Kazi Md. Rokibul Alam “**A Blockchain Based Scalable Framework for Academic Document Verification**” in 26th International Conference on Computer and Information Technology. (Submitted).

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#### Academic Projects

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1. **Patient Monitoring System** - A system development project completed with Python 3 and QT 5.
2. **Islamic Portal** - A web-based project completed with PHP, CSS, and MySQL.
3. **Automated Chicken Farming** - A database project completed with SQL and PL/SQL.
4. **Online News Reader** - An iOS project completed with Swift 3.
5. **Nearest Mosque Locator** - An Android project completed with Java.
6. **Smart Locker with LCD Display** - A hardware project completed with Arduino.

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#### Awards

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1. **Three Dean’s Awards** from the EEE faculty, KUET for achieving outstanding results.
2. **General Scholarship** for excellent performance in the Secondary School Certificate (S.S.C) exam.

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#### Technical Skills

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Machine Learning	CNN, SVM, Random Forest, Regression, Decision Tree, Bayesian Models, PCA, Neural Networks, LSTM, NumPy, Pandas, Seaborn, TensorFlow, Keras, Scikit-learn, Matplotlib.
Programming	Python, PHP, Java, JavaScript, Assembly, Swift, C#, C, C++.
Mobile Apps	Android Studio, Xcode (iOS).
Web	ASP.NET, HTML, CSS.
Database	MySQL, SQLite, Oracle.
Operating System	Windows, Ubuntu, iOS.
IDE	CodeBlocks, Eclipse, Pycharm, Jupyter.
Other Skills	Cisco Packet Tracer, Git, LaTeX.

## References

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### **Dr. M.M.A. Hashem**

Professor

Department of Computer Science and Engineering  
(CSE)

Khulna University of Engineering & Technology  
(KUET), Khulna-9203, Bangladesh

Email: [hashem@cse.kuet.ac.bd](mailto:hashem@cse.kuet.ac.bd)

Website: [www.kuet.ac.bd/cse/hashem/](http://www.kuet.ac.bd/cse/hashem/)

Mobile: +880-1714003949

### **Dr. Kazi Md. Rokibul Alam**

Professor

Department of Computer Science and Engineering  
(CSE)

Khulna University of Engineering & Technology  
(KUET), Khulna-9203, Bangladesh

Email: [rokib@cse.kuet.ac.bd](mailto:rokib@cse.kuet.ac.bd)

Website: [www.kuet.ac.bd/cse/rokib/](http://www.kuet.ac.bd/cse/rokib/)

Mobile: +880-1714087216