

Sk. Tanzir MEHEDI

I Don't Believe In Magic

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🌐 <https://tanzirmehedi.github.io> [↗](#)



Tanzir?

- Excellent academic background and experiences in Machine Learning and security analysis of the autonomous applications using Blockchain & AI-enabled technology.
- Proven ability to work as an individual or a team member with minimal supervision.
- Highly motivated and eagerly interested in learning through the fulfillment of all commitments.

Educational Attainments

● Mawlana Bhashani Science and Technology University, Bangladesh

M.Sc. (Engineering) in Information and Communication Technology

🔗 <http://www.mbstu.ac.bd>

📅 Class of 2019

📅 Result Published: July 15, 2023

CGPA

4.00 / 4.00

1st Position

Thesis Title: Privacy-Preserving and Dependable Deep Federated Learning-based Identification Model of New Infections

● Mawlana Bhashani Science and Technology University, Bangladesh

B.Sc. (Engineering) in Information and Communication Technology

🔗 <http://www.mbstu.ac.bd>

📅 Class of 2017

📅 Result Published: November 19, 2019

CGPA

3.93 / 4.00

1st Position

Thesis Title: Dependable Intrusion Detection System for IoT: A Deep Transfer Learning-based Approach

● Khan Bahadur Ahsanullah College, Khulna, Bangladesh

Higher Secondary Certificate Examination, Jashore Board

🔗 <http://www.kbagc.ac.bd>

📅 Class of 2012

GPA

5.00 / 5.00

● Moutala Secondary High School, Satkhira, Khulna, Bangladesh

Secondary School Certificate Examination, Jashore Board

🔗 <http://www.mhs.edu.bd>

📅 Class of 2010

GPA

5.00 / 5.00

Academic Experiences

2/'24- Present **Sessional Academic** [↗](#),

Department of Computer Science, Queensland University of Technology, Brisbane, Australia

- Conduct practical on IFB452 Blockchain Technology.
- Developed course materials for IFB452 Blockchain Technology.

1/'23-1/'24 **Lecturer (Full-time)** [↗](#),

Department of CSE, University of Asia Pacific, Dhaka, Bangladesh

- Conduct classes, labs, exams and evaluate students' lab, assignment as well as final answer scripts.
- Conducting undergraduate students' research with the aim of publications.

3/'20-1/'23 **Lecturer (Full-time)** [↗](#),

Department of IT, University of Information Technology and Sciences, Dhaka, Bangladesh

- Conducted classes and evaluated students' final answer scripts.
- Assisted in research activities and supervised undergraduate students working on the research.

Industrial Experiences

9/'19-12/'19 **Data Analyst Engineer (Trainee)** [↗](#),

Fujitsu Research Institute, Tokyo, Japan

- I worked on several real-time machine learning projects.
- Lead a small team and work closely to support data scientists.

Research Experiences

1/'18-6/'19 **Research Fellow (Part-time)** [↗](#),

ICT Division, Dhaka, Bangladesh

- I worked on developing a privacy-preserving and dependable identification model for new infections from genome sequences.

Research Interests

I want to move forward myself to the research activities. It gives me immense pleasure, passion, and a realization as well when I go over in the research area of my interest

- Investigate and improve the security and privacy of autonomous applications using Blockchain & AI-enabled technology.

Publications

Journals

1. **S. T. Mehedi**, A. Anwar, Z. Rahman et al., "Dependable Intrusion Detection System for IoT: A Deep Transfer Learning-based Approach," *IEEE Transactions on Industrial Informatics*, vol. 19, no. 1, pp. 1006-1017, 2022.
DOI: [10.1109/TII.2022.3164770](https://doi.org/10.1109/TII.2022.3164770) - [CrossRef](#) [↗](#)
2. **S. T. Mehedi**, A. Anwar, Z. Rahman et al., "Deep Transfer Learning-based Intrusion Detection System for Electric Vehicular Networks," *Sensors*, vol. 21, no. 14, pp. 4736, 2021.
DOI: [10.3390/s21144736](https://doi.org/10.3390/s21144736) - [CrossRef](#) [↗](#)
3. Z. Rahman, X. Yi, **S. T. Mehedi** et al., "Blockchain Applicability for the Internet of Things: Performance and Scalability Challenges and Solutions," *Electronics*, vol. 11, no. 2, pp. 1416, 2022.
DOI: [10.3390/electronics11091416](https://doi.org/10.3390/electronics11091416) - [CrossRef](#) [↗](#)
4. **S. T. Mehedi**, K. Ahmed, F. M. Bui et al., "MLBioIGE: Integration and Interplay of Machine Learning and Bioinformatics Approach to Identify the Genetic Effect of SARS-COV-2 on Idiopathic Pulmonary Fibrosis Patients," *Biology Methods and Protocols*, vol. 7, no. 1, 2022.
DOI: [10.1093/biomethods/bpac013](https://doi.org/10.1093/biomethods/bpac013) - [CrossRef](#) [↗](#)
5. **S. T. Mehedi**, A. A. M. Shamim K. Ahmed et al. "Graphene Injected D-Shape Photonic Crystal Fiber for Nonlinear Optical Applications," *Silicon*, vol. 12, pp. 2293-2300, 2020.
DOI: [10.1007/s12633-019-00323-1](https://doi.org/10.1007/s12633-019-00323-1) - [CrossRef](#) [↗](#)
6. **S. T. Mehedi**, A. A. M. Shamim, M. B. A. Miah, "Blockchain-based Security Management of IoT Infrastructure with Ethereum Transactions," *IJCS*, vol. 2, pp. 189-195, 2019.
DOI: [10.1007/s42044-019-00044-z](https://doi.org/10.1007/s42044-019-00044-z) - [CrossRef](#) [↗](#)

- M. Billah, **S. T. Mehedi**, A. Anwar et al., "A Systematic Literature Review on Blockchain Enabled Federated Learning Framework for Internet of Vehicles," *arXiv*, 2022.

DOI: 10.48550/arXiv.2203.05192 - CrossRef [↗](#)

Conferences

- J. Ferdows, **S. T. Mehedi**, A. S. M. Hossain et al., "A Comprehensive Study of IoT Application Layer Security Management," *IEEE International Conference for Innovation in Technology (INOCON)*, pp. 1-7, 2020.

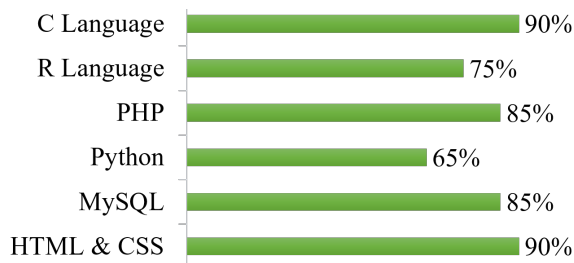
DOI: 10.1109/INOCON50539.2020.9298245 - CrossRef [↗](#)

Book Chapters

- A. A. Sefat, G. M. R. I. Rasiq, **S. T. Mehedi**, "CPU Performance Prediction Using Various Regression Algorithms," *Proceedings of International Conference on Machine Intelligence and Data Science Applications, Algorithms for Intelligent Systems*, Springer, Singapore, pp. 163-171, 2021.

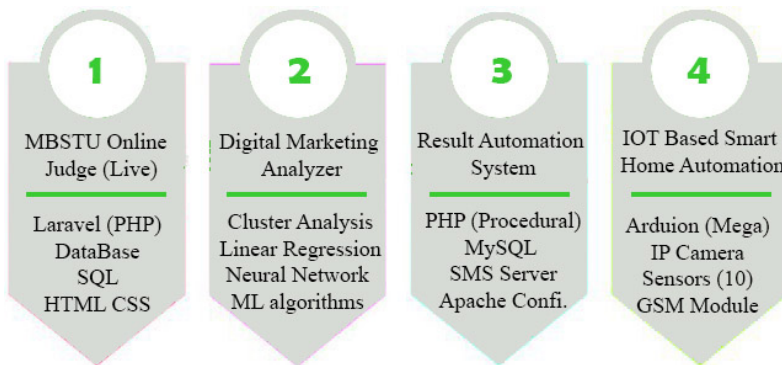
DOI: 10.1007/978-981-33-4087-9_14 - CrossRef [↗](#)

Technical Skills



Research Tools LaTeX, Git, Google Colab, Jupyter Notebook, Diagram, Zotero, MATLAB, Turnitin, Mendeley, Researchrabit, Canva, Connectedpaper, Typeset

Completed Projects



Details [Projects Details and Another Projects ↗](#)

Professional Affiliation

IEEE-R10 Member, The Institute of Electrical and Electronics Engineers (IEEE)
Member Number: 94893789 (2016-Present)

Leading Skills

UAP PCC Convener, UAP Programming Contest Club, 2023
IEEE SB Chair at IEEE MBSTU Student Branch, 2019
IEEE SB Vice-Chair at IEEE MBSTU Student Branch, 2018

Language Skills

- Bengali Native language
English IELTS: 7.0 (Speaking-7, Listening-7, Reading-8, and Writing-6.5)
Japanese Level: N5 (Ability to understand some basic Japanese Speaking, Reading, and Writing)

Scholarships, Awards and Prizes

- Scholarship A full-funded scholarship by Queensland University of Technology Postgraduate Research Award (QUTPRA) and QUT HDR Tuition Fee Sponsorship, 2024
Award University Academic Genius Award, Mawlana Bhashani Science and Technology University, 2023
Certificate Coach, 2023 ICPC Asia Dhaka Regional Contest, BUBT, 2023
Award Best Trainer, Ethical Hacking and Cybersecurity in Power Sector, Operational Perspectives, Bangladesh Power Development Board, 2022
Certificate Coach, BUET Inter-University Programming Contest 2022, BUET CSE Fest, 2022
Award Best Coach, Cefalo CodeFiesta 2022: AUST Inter-University Programming Contest, 2022
Certificate Coach, 2022 ICPC Asia Dhaka Regional Contest, Green University of Bangladesh, 2022
Fellowship Fellowship, ICT Division, Bangladesh - Government of The People's Republic of Bangladesh, 2020
Award Selected as one of the top 5 trainees among 50 IT Engineers, BHTPA and ICT Division, Bangladesh, Government of The People's Republic of Bangladesh, 2019
Scholarships Faculty of Engineering, Mawlana Bhashani Science and Technology University (MBSTU), B.Sc (Engg.) and M.Sc (Engg.) exams in every year from 2015 to 2020
Award Project Show (Best Innovative Idea) event at Digital Innovation Fairs, 2018
Certificate EEE Day Inter-University Project/Thesis Presentation, Bangladesh University of Engineering and Technology (BUET), 2018
Award Inter-University Programming Contest in the 1st MBSTU CSE Carnival, 2017
Certificate AB Bank - Islamic University of Technology (IUT) 8th ICT Fest Programming Contest, 2016
Memorandum Letter of Congratulatory, Science Olympiad Event by the Boson Science Olympiad, Tangail, 2015
Award Letter of Congratulatory for SSC Scholarship Result by Prothom Alo-Robi Award Ceremony, 2010

Research Profiles

Google Scholar [↗](#) ORCID [↗](#) ResearchGate [↗](#) Portfolio [↗](#)

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