

CURRICULUM VITAE OF **Md. Sadekur Rahman**

Assistant Professor

Department of Computer Science and Engineering

Faculty of Science and Information Technology

Daffodil International University

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Objective:

To enrich my potential and skills as a teacher and researcher of Computer Science and Engineering

Research Area/Interest:

❖ Artificial Intelligence, especially Natural Language Processing, Computer Vision, Machine Learning

Educational Qualifications:

❖ **Doctor of Philosophy (Ongoing)**

Thesis Domain: Natural Language Processing

Tentative title: Answering Biomedical List Type Questions Using Large Language Models

Supervisor: Prof. Rosalina Abdul Salam

Department of Computer Science and Engineering

University Sains Islam Malaysia

❖ **M.Sc. in Applied Mathematics and Informatics, 2007**

Grade: Awarded

Project Title: Enterprise Resource Planning and Implementation to Manage a Sports Chain Shop

Supervisor: Prof. Igor Leonodovich Tolmachov

Department of Information Technology

Faculty of Physical Mathematics and Natural Science

Peoples' Friendship University of Russia

❖ **B.Sc. in Computer Science, 2005**

Grade: Awarded

Project Title: Automated Exam Management System

Supervisor: Prof. Igor Leonodovich Tolmachov

Department of Information Technology

Faculty of Physical Mathematics and Natural Science

Peoples' Friendship University of Russia

- ◆ **Higher Secondary Certificate, 1998**
1st Division from Science Group
Total Marks: 740 out of 1000
Barisal Cadet College, Jessore Board
- ◆ **Secondary School Certificate, 1996**
1st Division from Science Group
Total Marks: 852 out of 1000
Barisal Cadet College, Jessore Board

Professional Experience:

- ◆ **Total Experience: Fifteen years and four months**
Full-time Employment
Total Years of Experience: 15 years 7 months and 21 days
 - Position: Assistant Professor**
Department of Computer Science and Engineering
Daffodil International University
Duration: **8 years 3 months and 21 days**
Date: January 2018 – Date
 - Position: Senior Lecturer**
Department of Computer Science and Engineering
Daffodil International University, Dhanmondi, Dhaka-1207
Duration: **Two years and three months**
Date: October, 2015 – December, 2017
 - Position: Lecturer**
Department of Computer Science and Engineering
Daffodil International University, Dhanmondi, Dhaka-1207
Duration: **Two years and four months**
Date: May, 2013 – September, 2015
 - Position: Lecturer**
Department of Computer Science and Engineering
Royal University of Dhaka, Banani, Dhaka
Duration: **Two years and eight months**
Date: September, 2010 – April, 2013

Publication Details:

❖ Statistics of Publications:

| Sl # | Publication Type | Published |
|------|------------------|-----------|
| 1 | Journal | 27 |
| 2 | Conference | 57 |
| 3 | Books/Chapter | 2 |
| | Total | 86 |

❖ List of published Articles:

⊕ Journals:

1. A. Hanzala, M. Sajjad, T. Akter, H. Kaur, M. S. Rahman, “Error level driven attention guided ensembles models for accurate leather defect detection”, *Discover Applied Sciences*, Vol. 8, no. 440, Springer Nature, Switzerland. doi: <https://doi.org/10.1007/s42452-025-08157-w>.

[Scopus-indexed-Q2]

2. Y. Islam, M. A. Rahman, M. S. Rahman, M. Hasan, M. T. Habib, “CashYaar: Automatic Machine Payment Confirmation Service”, *The Journal of Engineering*, Vol. 2026, no. 1. Mar. 2026, The Institute of and Engineering and Technology (IET/Wiley), United Kingdom. doi: <https://doi.org/10.1049/tje2.70176>

[Scopus-indexed-Q1]

3. M. F. Hossain, A. R. Khan, M. S. Rahman, and Ohidujjaman, “Accent Classification Across Continents: A Deep Learning Approach”, *Emerg Science Journal*, vol. 10, no. 1, pp. 609–626, Feb. 2026, Ital Publication, Italy. doi: <https://doi.org/10.28991/ESJ-2026-010-01-030>

[Scopus-indexed-Q1]

4. A. Hanzala, M. Sajjad, T. Akter, H. Kaur, and M. S. Rahman, “NeuroFusion: A forensic enriched ensemble framework for cerebellum disease classification,” *Neuroscience Informatics*, vol. 6, no. 1, p. 100251, Mar. 2026, Elsevier, France. doi: <https://doi.org/10.1016/j.neuri.2025.100251>

[Scopus-indexed-Q1]

5. A. Hanzala, T. Akter, and Md. S. Rahman, “A hybrid approach for cervical cancer detection: Combining D-CNN, transfer learning, and ensemble models,” *Array*, vol. 27, p. 100434, Sep. 2025, Elsevier, The Netherlands. doi: <https://doi.org/10.1016/j.array.2025.100434>

[Scopus-indexed-Q1]

6. U. Aiman, M. N. Islam, M. H. S. Chowdhury, M. S. Rahman Md. T. Habib, and M. Hasan, “BRADS and BRWDS: Multipurpose audio and text datasets for automatic Bangla regional speech recognition,”

Data in Brief, vol. 63, p. 112177, Dec. 2025, Elsevier, The Netherlands. doi: <https://doi.org/10.1016/j.dib.2025.112177>.

[Scopus-indexed-Q3]

7. S. Biswas, M. Rahman, M. T. Rabeya, M. M. Abedin, M. Hasan, and M. S. Rahman, “BanglaSarc3: A Benchmark Dataset for Bangla Sarcasm Detection from Social Media to Advance Bangla NLP,” *Data in Brief*, pp. 111953–111953, Aug. 2025, Elsevier, The Netherlands. doi: <https://doi.org/10.1016/j.dib.2025.111953>.

[Scopus-indexed-Q3]

8. S. Mustofa, S. Khan, S. A. Shovo, Y. R. Emon, and M. S. Rahman, “Optimizing Soursop leaf disease classification with a lightweight ensemble model and explainable AI,” *Current Plant Biology*, vol. 43, p. 100526, Sep. 2025, Elsevier, The Netherlands. doi: <https://doi.org/10.1016/j.cpb.2025.100526>

[Scopus-indexed-Q1]

9. M. F. Ishrak, M. M. Rahman, M. I. K. Joy, A. Tamuly, S. Akter, D. M. Tanim, S. Jawar, N. Ahmed, & M. S. Rahman, “Vision Transformer Embedded Feature Fusion Model with Pre-Trained Transformers for Keratoconus Disease Classification,” *Emerging Science Journal*, vol. 9, no. 2, pp. 1037–1075, Apr. 2025, Ital Publication, Italy. doi: <https://doi.org/10.28991/esj-2025-09-02-027>.

[Scopus-indexed-Q1]

10. H. D. Arpita, A. A. Ryan, M. F. Hossain, M. S. Rahman, M. Sajjad, and N. Noor Islam Prova, “Exploring Bengali speech for gender classification: machine learning and deep learning approaches,” *Bulletin of Electrical Engineering and Informatics*, vol. 14, no. 1, pp. 328–337, Feb. 2025, Institute of Advanced Engineering and Science (IAES), Indonesia. doi: <https://doi.org/10.11591/eei.v14i1.8146>

[Scopus-indexed-Q3]

11. M. A. Rahman, A. A. Khan, M. M. Hasan, M. S. Rahman and M. T. Habib, "Deep Learning Modeling for Potato Breed Recognition," *IEEE Transactions on AgriFood Electronics*, vol. 2, no. 2, pp. 419-427, Sept.-Oct. 2024, Institute of Electrical and Electronics Engineers (IEEE), USA. doi: [10.1109/TAFE.2024.3406544](https://doi.org/10.1109/TAFE.2024.3406544).

[IEEE]

12. M. S. Junayed, A. A. Jeny, M. T. Habib, and M. S. Rahman, “Deep learning-based approach for recognition of local fish,” *International Journal of Intelligent Machines and Robotics (IJIMR)*, vol. 1, no. 4, pp. 293–313, Jan. 2024, Inderscience, Switzerland. doi: <https://doi.org/10.1504/ijimr.2024.138950>

[Hindwai-Q3]

13. M. A. I. Arif, S. I. Sany, F. Sharmin, M. S. Rahman and Md. Tarek Habib, “Prediction of addiction to drugs and alcohol using machine learning: A case study on Bangladeshi population,” *International Journal of Electrical and Computer Engineering*, vol. 11, no. 5, pp. 4471-4480, Oct. 2021, Institute of Advanced Engineering and Science (IAES), Indonesia.

[Scopus-indexed-Q3]

14. M. R. Rahman, M. T. Habib, M. S. Rahman, G. Z. Islam and M. A. A. Khan, “An Exploratory Research on Grammar Checking of Bangla Sentences Using Statistical Language Models,” *International Journal of Electrical and Computer Engineering*, vol. 10, no. 3, pp. 3244-3252, June 2020, **Institute of Advanced Engineering and Science (IAES), Indonesia.**

[Scopus-indexed-Q3]

15. M. A. A. Khan, M. R. Billah, C. Debnath, Sadekur Rahman, M. T. Habib and G. Z. Islam, “A Detailed Investigation of the Impact of Online Transportation on Bangladesh Economy,” *Indonesian Journal of Electrical Engineering and Computer Science*, vol. 16, no. 1, pp. 420-428, October 2019, **Institute of Advanced Engineering and Science (IAES), Indonesia.**

[Scopus-indexed-Q3]

16. M. I. A. Eyamin, M. T. Habib, M. I. K. Islam, M. S. Rahman and M. A. A. Khan, "An Investigative Design of Optimum Stochastic Language Model for Bangla Autocomplete," *Indonesian Journal of Electrical Engineering and Computer Science*, vol. 13, no. 2, pp. 671-676, February 2019, **Institute of Advanced Engineering and Science (IAES), Indonesia.**

[Scopus-indexed-Q3]

17. M. I. K. Islam, M. T. Habib, M. S. Rahman and M. R. Rahman, "A Context-Sensitive Approach to Find Optimum Language Model for Automatic Bangla Spelling Correction," *International Journal of Advanced Computer Science and Applications*, vol. 9, no. 11, pp. 184-191, 2018, **Science and Information (SAI) Organization, UK.**

[ESCI-Indexed; Scopus-indexed-Q3]

18. M. T. Habib, A. A. Mamun, M. S. Rahman, S. M. T. Siddiquee and F. Ahmed, "An Exploratory Approach to Find a Novel Metric Based Optimum Language Model for Automatic Bangla Word Prediction", *International Journal of Intelligent Systems and Applications (IJISA)*, vol. 10, no. 2, pp. 47-54, February 2018, **Modern Education and Computer Science (MECS) Publisher, Hong Kong.**

[Scopus-indexed-Q4]

19. A. I. Jony, M. S. Rahman, and Y. M. Islam, “ICT in Higher Education: Wiki-based Reflection to Promote Deeper Thinking Levels”. *International Journal of Modern Education and Computer Science (IJECS)*, vol. 9, no. 4, pp.43-49, April 2017, **Modern Education and Computer Science (MECS) Publisher, Hong Kong.**

[Scopus-indexed-Q4]

20. M. S. Rahman, Gollam Rabby, “Design and Development of a University Human Resource Ontology Model for Semantic Web” *International Journal of Computer Science and Network Security*, vol. 17 no. 1 pp.187-182, January 2017, Korea (South).

[ESCI-indexed-Q3]

21. M. R. Rahman, M. T. Habib, M. S. Rahman, S. B. Shuvo and M. S. Uddin, “An Investigative Design Based Statistical Approach for Determining Bangla Sentence Validity,” *International Journal of Computer Science and Network Security*, vol. 16, no. 11, pp. 30–37, November 2016, **Korea (South)**.

[ESCI-Indexed-Q3]

22. M. R. Rahman, M. T. Habib, M. S. Rahman, Shaon Bhatta Shuvo and Mohammad Shorif Uddin, “An Investigative Design Based Statistical Approach for Determining Bangla Sentence Validity,” *International Journal of Computer Science and Network Security*, vol. 16, no. 11, pp. 30–37, November 2016, **Korea (South)**.

[ESCI-indexed-Q3]

23. M. A. A. Khan, K. B. M. B. Biplob and M. S. Rahman, “A Study on Delay, Throughput and Traffic Measurement for Wi-Fi Connected Stations Based on MAC Sublayer,” *American Journal of Computer Science and Engineering Survey (AJCSES)*, vol. 4 no. 2, pp. 019-028, Aril 2016, **United Kingdom**.

24. K. B. M. B. Biplob, Y. M. Islam and M. S. Rahman, “Engaging Students to Take Ownership of Their Learning Through a Stepped Teaching Mode,” *Journal of Educational Science*, vol. 1, no. 1, pp. 22-33, February 2016, **Indonesia**.

25. A. B. M. Moniruzzaman and M. S. Rahman, “Analysis of Topology Based Routing Protocols for Vehicular Ad-Hoc Network (VANET),” *International Journal of Future Generation Communication and Networking*, vol. 8, no. 3, 2015, **Australia**.

[ESCI-indexed-Q4]

26. A.B.M. Moniruzzaman, M. Waliullah and M. S. Rahman, “A High Availability Clusters Model Combined with Load Balancing and Shared Storage Technologies for Web Servers,” *International Journal of Grid and Distributed Computing*, vol. 8, no. 1, 2015, **Australia**.

[ESCI-indexed-Q4]

27. M. Waliullah, A.B.M. Moniruzzaman and M. S. Rahman, “An Experimental Study Analysis of Security Attacks at IEEE 802.11 Wireless Local Area Network,” *International Journal of Future Generation Communication and Networking*, vol. 8, no. 1, 2015, **Australia**.

[ESCI-indexed-Q4]

❖ **Conference Proceedings:**

1. A. P. Alo, M. R. Amin, M. I. K. Joy, K. R. Alam, S. S. Ramit, and M. S. Rahman, “Enhancing cervical cancer diagnosis through explainable AI and deep learning techniques,” in *ICT for Intelligent Systems*, J. Choudrie, E. Tuba, T. Perumal, and A. Joshi, Eds. Singapore: Springer, 2026, vol. 325, *Smart Innovation, Systems and Technologies*, pp. 391–401, doi: 10.1007/978-981-95-1365-9_32. [Springer]

2. S. S. Ramit, N. Ahmed, M. F. Ishrak, M. R. Amin, A. P. Alo, and M. S. Rahman, "OSCC diagnosis with deep learning: A multi-CNN approach with explainability," in *ICT for Intelligent Systems*, J. Choudrie, E. Tuba, T. Perumal, and A. Joshi, Eds. Singapore: Springer, 2026, vol. 325, *Smart Innovation, Systems and Technologies*, pp. 367–378, doi: 10.1007/978-981-95-1365-9_30. [[Springer](#)]
3. N. Ahmed, M. M. Rahman, M. F. Ishrak, M. I. K. Joy, M. S. H. Sabuj, M. S. Rahman, "Performance Benchmarking of Transformer-based Pretrained Deep Learning Models for Keratoconus Disease Identification" *2026 6th International Conference on Image Processing and Capsule Networks (ICIPCN)*, pp. 602-608, March 2026, Nepal. [[Springer](#)]
4. M. H. Salman, M. A. R. Rahat, A. Rahman, S. S. Khan, and M. S. Rahman, "Deep learning approaches for scene classification in remote sensing imagery," in *Multi-Strategy Learning Environment*, V. Vimal, I. Perikos, and H. Taherdoost, Eds. Singapore: Springer, 2026, *Algorithms for Intelligent Systems*, pp. 157–168, doi: 10.1007/978-981-96-7059-8_13. [[Springer](#)]
5. A. P. Alo, R. F. Richi, S. M. Shaqib, K. R. Alam, S. A. Khushbu, and M. S. Rahman, "Transfer learning techniques for efficient deep neural networks in real-time strawberry freshness evaluation," in *Biotechnology and Health Sciences*, R. S. Sherratt, J. M. R. S. Tavares, S. Fong, and N. Dey, Eds. Singapore: Springer, 2025, vol. 40, *Lecture Notes in Computational Vision and Biomechanics*, pp. 87–104, doi: 10.1007/978-981-96-6103-9_7. [[Springer](#)]
6. M. A. R. Rahat, M. H. Salman, A. Rahman, J. Amin, S. S. Khan and M. S. Rahman, "Mitigating the Spread of Misinformation: A Comparative Analysis of Deep Learning Architectures for Fake News Detection," *2025 International Conference on Computing Technologies & Data Communication (ICCTDC)*, HASSAN, India, 2025, pp. 1-7, doi: 10.1109/ICCTDC64446.2025.11158737.
7. T. Hossain, A. A. N. Kabir, M. A. H. Ratul and M. S. Rahman, "Evaluating Machine Learning Models for Intrusion Detection: A Performance-Based Comparison," *2025 International Conference on Inventive Computation Technologies (ICICT)*, Kirtipur, Nepal, 2025, pp. 599-604, doi: 10.1109/ICICT64420.2025.11005125. [[IEEE](#)]
8. A. A. M. Mustahid, M. S. Rahman, M. I. K. Joy, M. F. Ishrak, N. Ahmed and A. A. M. Muzahid, "DenseNet-Driven Multi-Class Classification of Skin Lesions with Data Augmentation for Improved Balance," *2025 17th International Conference on Computer and Automation Engineering (ICCAE)*, Perth, Australia, 2025, pp. 38-43, doi: 10.1109/ICCAE64891.2025.10980560. [[IEEE](#)]

9. W. W. Faieaz, S. Jannat, P. K. Mondal, S. S. Khan, S. Karmaker and M. S. Rahman, "Advancing Bangla NLP: Transformer-Based Question Generation using Fine-Tuned LLM," *2025 International Conference on Electrical, Computer and Communication Engineering (ECCE)*, Chittagong, Bangladesh, 2025, pp. 1-7, doi: 10.1109/ECCE64574.2025.11013206. [IEEE]
10. M. K. Yousuf, M. Hasan Rifat, P. K. Mondal, A. Paul Arpan, M. M. Islam and M. Sadekur Rahman, "Addressing Class Imbalance in Bengali Sentiment Analysis: A Comparative Study of BanglaBERT and Multilingual BERT," *2025 International Conference on Electrical, Computer and Communication Engineering (ECCE)*, Chittagong, Bangladesh, 2025, pp. 1-7, doi: 10.1109/ECCE64574.2025.11013469. [IEEE]
11. P. K. Mondal, M. Masud Rana, B. Roy Shuvo, K. Ahmed Ornob, A. Sattar and M. S. Rahman, "Low-Resource Language Summarization: A Study of Bangla Using T5 architecture," *2025 International Conference on Electrical, Computer and Communication Engineering (ECCE)*, Chittagong, Bangladesh, 2025, pp. 1-7, doi: 10.1109/ECCE64574.2025.11013501. [IEEE]
12. S. H. Rony, A. H. Masum, H. D. Arpita and M. S. Rahman, "Enhanced CNN Models for Precise Classification of Pneumonia and COVID-19," *2024 13th International Conference on Electrical and Computer Engineering (ICECE)*, Dhaka, Bangladesh, 2024, pp. 51-56, doi: 10.1109/ICECE64886.2024.11024887. [IEEE]
13. S. S. Khan, A. Ul Haque Rupak and M. S. Rahman, "Optimizing Vehicle Insurance Processing through Advanced Deep Learning Models," *2024 15th International Conference on Computing Communication and Networking Technologies (ICCCNT)*, Kamand, India, 2024, pp. 1-7, doi: 10.1109/ICCCNT61001.2024.10724385. [IEEE]
14. M. S. A. Mahmud, S. S. Khan, M. S. Rahman, N. Ahmed, N. N. I. Prova and A. K. Gupta, "Bangla Hand-Written Digit Recognition Using Deep Learning Models," *2024 15th International Conference on Computing Communication and Networking Technologies (ICCCNT)*, Kamand, India, 2024, pp. 1-6, doi: 10.1109/ICCCNT61001.2024.10725113. [IEEE]
15. M. K. Hirok, S. Rahman and M. Parvin, "Anemia prediction and classification of all classes with and without anemia patients using a machine learning model," *2024 IEEE International Conference on Computing, Applications and Systems (COMPAS)*, Cox's Bazar, Bangladesh, 2024, pp. 1-6, doi: 10.1109/COMPAS60761.2024.10796730. [IEEE]

16. S. S. Khan, Md. S. Rahman, A. U. H. Rupak, and Md. S. Rahman, "DeepInsureAI: A Deep Learning-Based Vehicle Insurance Prediction Model," *Lecture Notes in Electrical Engineering*, pp. 273–285, 2025, doi: https://doi.org/10.1007/978-981-97-9112-5_16. [[Springer](#)]
17. F. M. Tanmoy, Z. Hossain, O. Tasfia, Md. Abrar Hamim, Md. Sadekur Rahman, and Md. Tarek Habib, "Machine Learning Modeling for Population Forecasting," *Lecture Notes in Electrical Engineering*, pp. 213–228, 2025, doi: https://doi.org/10.1007/978-981-97-9112-5_13 [[Springer](#)]
18. A. Hanzala, M. S. Rahman, S. S. Khan, M. M. Rahman, M. Sajjad and A. K. Gupta, "Deep Learning-Based Alzheimer's Disease Detection Using 2D MRI Images," *2024 15th International Conference on Computing Communication and Networking Technologies (ICCCNT)*, Kamand, India, 2024, pp. 1-7, doi: 10.1109/ICCCNT61001.2024.10725482 [[IEEE](#)]
19. P. K. Mondal, S. S. Khan, M. M. Rana, S. S. Ramit, A. Sattar and M. S. Rahman, "Breaking the Fake News Barrier: Deep Learning Approaches in Bangla Language," *2024 15th International Conference on Computing Communication and Networking Technologies (ICCCNT)*, Kamand, India, 2024, pp. 1-6, doi: 10.1109/ICCCNT61001.2024.10725195 [[IEEE](#)]
20. F. Afrin, M. A. Laboni, I. F. Rimi, M. S. Rahman and M. T. Habib, "A Blockchain-Based Approach for Detecting Counterfeit Pharmaceuticals," *2024 15th International Conference on Computing Communication and Networking Technologies (ICCCNT)*, Kamand, India, 2024, pp. 1-6, doi: 10.1109/ICCCNT61001.2024.10723930 [[IEEE](#)]
21. S. S. Ramit, A. P. Alo, S. Shaqib, S. S. Khan, A. U. H. Rupak and M. S. Rahman, "Performance Evaluation of YOLO Models for Detecting Bangladeshi License Plates," *2024 15th International Conference on Computing Communication and Networking Technologies (ICCCNT)*, Kamand, India, 2024, pp. 1-8, doi: 10.1109/ICCCNT61001.2024.10724472 [[IEEE](#)]
22. R. A. Trisha, M. Sajjad, I. H. Saad, K. Tahmiduzzaman and M. S. Rahman, "An Ensemble Model to Detect Awareness of Malicious Software by Analyzing Users' Mobile Usage Patterns in the Context of Bangladesh," *2024 15th International Conference on Computing Communication and Networking Technologies (ICCCNT)*, Kamand, India, 2024, pp. 1-8, doi: 10.1109/ICCCNT61001.2024.10725284 [[IEEE](#)]

23. U. Ghosh, S. Rokoni, M. A. Rahman, M. S. Rahman and M. T. Habib, "CNN Modeling for Recognizing Rice Leaf Diseases," *2024 15th International Conference on Computing Communication and Networking Technologies (ICCCNT)*, Kamand, India, 2024, pp. 1-6, doi: 10.1109/ICCCNT61001.2024.10725764 [IEEE]
24. M. A. Rahman, A. A. Khan, M. M. Hasan, M. S. Rahman and M. T. Habib, "Deep Learning Modeling for Potato Breed Recognition," in *IEEE Transactions on AgriFood Electronics*, vol. 2, no. 2, pp. 419-427, Sept.-Oct. 2024, doi: 10.1109/TAFE.2024.3406544 [IEEE]
25. M. T. Islam and M. S. Rahman, "An Efficient Deep Learning Approach for Jute Pest Classification Using Transfer Learning," *2024 6th International Conference on Electrical Engineering and Information & Communication Technology (ICEEICT)*, Dhaka, Bangladesh, 2024, pp. 1473-1478, doi: 10.1109/ICEEICT62016.2024.10534395 [IEEE]
26. H. D. Arpita, A. Al Ryan, M. S. Hossen and M. S. Rahman, "Airline Sentiments Unplugged: Leveraging Deep Learning for Customer Insights," *2023 5th International Conference on Sustainable Technologies for Industry 5.0 (STI)*, Dhaka, Bangladesh, 2023, pp. 1-6, doi: 10.1109/STI59863.2023.10464925 [IEEE]
27. W. Sabbir, M. Abdullah-Al-Kafi, A. S. Afridi, M. S. Rahman and M. Karmakar, "Improving Predictive Analytics for Student Dropout: A Comprehensive Analysis and Model Evaluation," *2024 11th International Conference on Computing for Sustainable Global Development (INDIACom)*, New Delhi, India, 2024, pp. 951-956, doi: 10.23919/INDIACom61295.2024.10498520 [IEEE]
28. A. S. Afridi, M. Abdullah-Al-Kafi, W. Sabbir, M. S. Rahman, N. P. Stenin and D. M. Raza, "Comparative Analysis of Machine Learning Algorithms for Predicting Heart Disease: A Comprehensive Study," *2024 11th International Conference on Computing for Sustainable Global Development (INDIACom)*, New Delhi, India, 2024, pp. 1265-1270, doi: 10.23919/INDIACom61295.2024.10498611 [IEEE]
29. Habiba Dewan Arpita, Abdullah Al Ryan, Md Shakil Hossen, Md Sadekur Rahman. (2023). Airline Sentiments Unplugged: Leveraging Deep Learning for Customer Insights, *5th International Conference on Sustainable Technologies for Industry 5.0 (STI)*, pp.1-6, IEEE. [IEEE]

30. Anik Pramanik, Fayazunnesa Chowdhury, Salma Sultana, Md Mahbubur Rahman, Md Hasan Imam Bijoy, Md Sadekur Rahman (2023). Monkeypox Detection from Various Types of Poxes: A Deep Learning Approach, 2023 IEEE 8th *International Conference for Convergence in Technology (I2CT)*, (pp. 1-7), IEEE. [IEEE]
31. Md Abdul Hamid, Nusrat Jahan Marjana, Eteka Sultana Tumpa, Md Rafidul Hasan Khan, Umme Sanzida Afroz, Md Sadekur Rahman. (2023). A Method for Bengali Author Detection Using State of the Arts Supervised Machine Learning Classifiers, *International Conference on Artificial Intelligence & Industrial Applications*, (pp. 21-33), Springer Nature Switzerland. [Springer]
32. Salma Sultana, Anik Pramanik, Md Sadekur Rahman. (2023). Lung Disease Classification Using Deep Learning Models from Chest X-ray Images, 3rd *International Conference on Intelligent Communication and Computational Techniques (ICCT)*, pp. 1-7, IEEE. [IEEE]
33. Abdur Nur Tusher, Saiful Islam, Md Tariqul Islam, Sakira Rezowana Sammy, Md Sadekur Rahman, Md Shibli Sadik. (2023). User Perspective Bangla Sentiment Analysis for Online Gaming Addiction using Machine Learning, 2022 Sixth *International Conference on I-SMAC (IoT in Social, Mobile, Analytics and Cloud)(I-SMAC)*, pp.538-543, IEEE. [IEEE]
34. Md. Hasan Imam Bijoy, Anik Pramanik, Md. Sadekur Rahman, Mehedi Hasan, Sumiya Alam Akhi and Md. Mahbubur Rahman. "MKRF Stacking-Voting: A Data Mining Technique for Predicting Educational Satisfaction Level of Bangladeshis Student During Pandemic," 7th *International Conference for Convergence in Technology (I2CT)*, 2022, IEEE, India. [IEEE]
35. Md. Towfiqul Islam, Tanzim Ahmed, A.B.M Raihanur Rashid, Taminul Islam, Md. Sadekur Rahman and Md. Tarek Habib, "Convolutional Neural Network Based Partial Face Detection," *International Conference for Convergence in Technology (I2CT)*, April 2022, Springer, India. [Springer]
36. Meherin Akter, Kaniz Fatima Ritu, Md. Tarek Habib, Md. Sadekur Rahman and Farruk Ahmed, "A Machine Learning Approach to Predict Social Media Addiction during Covid-19 Pandemic," *International Conference on Applied Artificial Intelligence and Computing (ICAATIC)*, pp. 401- 405, May 2022, IEEE, India. [IEEE]
37. Umme Sanzida Afroz, Md Rafidul Hasan Khan, Md Sadekur Rahman, Israt Jahan. (2022). An IoT-Based System to Measure Methane and Carbon Dioxide Emissions Along with Temperature and Humidity

in Urban Areas. *Computer Networks and Inventive Communication Technologies: Proceedings of Fifth ICCNCT 2022*, pp.647-656, Springer Nature Singapore. [[Springer](#)]

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57. Md. Sadekur Rahman and Yousuf Mahbubul Islam. (2015). Comparing various search engines on their ability to find literal meaning and proposing a model for deriving benefits of ontologybased search for words in the Qur'an. Proceeding of the *1st International Joint Conference Indonesia-Malaysia-Bangladesh-Ireland*. Universitas Ubudiyah Indonesia, 27 -28, Banda Aceh.

Books/Chapters:

1. From Machine Learning to Deep Learning: Concept, Algorithms and Applications, Daffodil International University Press, 2026, ISBN Number: 978-984-37-0559-4

2. Yousuf Mahbubul Islam, Md Kabirul Islam, Mohammed Shamsul Houque, Empowering Students to Learn Fundamentals of Programming, Penerbit USIM, 2020, ISBN: 978-967-440-705-6.

Courses Taught/Assisted:

Daffodil International University (Full time):

- Artificial Intelligence
- Natural Language Processing

- Data Mining
- Data Mining and Machine Learning
- Machine Learning
- Discrete Mathematics
- Computer Fundamentals
- System Analysis and Design
- Research and Innovation
- Thesis/Project (B.Sc.)
- Advanced Artificial Intelligence (M.Sc.)
- Research Methodology (M.Sc.)
- Thesis/Project (M.Sc.)

Independent University of Bangladesh (Adjunct):

- Data Structure
- Algorithm
- Discrete Mathematics
- Digital Logic Design
- Microprocessor
- Computer Architecture and Organization
- Compiler

Courses Taught Abroad:

- ❖ Name of the University: University Sains Islam
Subject taught: Information and Communication Technology

Academic Achievements:

- ❖ Russian Government Scholarship for Bachelor of Science in Applied Mathematics and Informatics at Peoples' Friendship University of Russia

Professional Activities:

- ❖ **Data Science Program Organizer: Crack Dataset Contest 2025:** Program Management, Member of the Judging Panel, Problem set creation, Advisory Committee member.
- ❖ **International Conference on Intelligent Data Analysis and Applications 2025:** Program Management, Reviewer, Session Moderator
- ❖ **Data Science Program Organizer: Crack Dataset Contest 2024:** Program Management, Problem set creation, Advisory Committee member.
- ❖ **Organizing Committee member in Conference:** Organizing Secretary, International Conference on Natural Language Processing and Applications (ICNLPA 2022).

❖ **Reviewer of reputed Journals**

1. Reviewer in Elsevier
 - Franklin Open
 - Comprehensive psychiatry
 - Heliyon
 - Journal of experimental child psychology
2. IEEE Access
3. PLOS One

❖ **Workshop organizer:** Workshop on early detection of Dementia symptoms.

Extra-Curricular Activities

Convener: Division of Research, Department CSE (2024-2025)

Team Leader of SAR Sub Committee: Criterion 7 (2024 – till date)

Advisor: DIU Cyber Security Club (2024 – till date)

Advisor: DIU NLP and ML Lab (2022 – 2024)

Convener: DIU-CPC Research Wing (2020 - 2022)

Convener: Class Monitoring Committee: (2019)

Member: Exam Committee (2018)

Member: Project Committee (2018)

Professional Training/Workshop:

| Title/Topic | Type | Name of the Institution | Duration |
|--|----------|-----------------------------------|---------------------------|
| Proposal Writing Process and Financial Budgeting Procedures for the ATF-HEAT Project | Workshop | Daffodil International University | February 2026 (1 day) |
| Continuous Quality Improvement (CQI) in Higher Education | Workshop | Daffodil International University | January 2026 (1 day) |
| Grant Writing Success: Strategies for Winning Proposals | Workshop | Daffodil International University | July 2025 (1 day) |
| Hands-On Knowledge Sharing: OBE Practices and SAR Preparation | Workshop | Daffodil International University | February 2025 (1 day) |
| Transformation of Real–World Problems to Graph–Theoretic Problems | Workshop | Daffodil International University | May, 2024 (1 day) |
| World University Rankings: The Role of Faculty and Management at DIU | Workshop | Daffodil International University | September 2023 (1 day) |
| Patent Development: Concept Building and Idea Generation | Workshop | Daffodil International University | August 2023 (1 day) |

| | | | |
|--|----------|-----------------------------------|---------------------------|
| OBE Curriculum Renewal and IEB Accreditation | Workshop | Daffodil International University | July 2021 (1 day) |
| Three days' Workshop on Quantitative Research | Workshop | Daffodil International University | August 2020 (3 days) |
| OBE Curriculum Preparing and Practicing | Workshop | Daffodil International University | August 2019 (2 days) |
| Enhancing Student Interaction and Engagement in Computer Science Courses | Workshop | Daffodil International University | February 2019 (1 day) |
| Research Capacity Development | Workshop | Universiti Sains Malaysia (USM) | Aril 2014 (10 days) |
| Smart Apps Development Training for University Teachers | Training | Daffodil International University | February 2014 (3 days) |
| Object-Oriented Programming (C#) | Training | BASIS | March 2009 (2 months) |

Professional Membership:

- ❖ Member of Bangladesh IEEE Society

Personal Details:

- ❖ Father's Name: Md. Shamsuddin
- ❖ Mother's Name: Selina Begum
- ❖ Date of Birth: October 16, 1979
- ❖ Nationality: Bangladeshi by Birth
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