Tanjim Taharat Aurpa

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⚗ RESEARCH INTERESTS

Artificial Intelligence, Machine Learning, Deep Learning, Computer Vision & Pattern Recognition, Natural Language Processing, Data Mining in Social Networks.

💼 PROFESSIONAL APPOINTMENTS

Mar 2024 to Present	**Chairperson (Acting)**, Department of Data Science and Engineering, University of Frontier Technology, Bangladesh
Feb 2024 to Present	**Lecturer**, Department of Data Science and Engineering, University of Frontier Technology, Bangladesh
Aug 2023 to Feb 2024	**Lecturer**, Department of Educational technology and Engineering, University of Frontier Technology, Bangladesh
Sep 2022 to Aug 2023	**Lecturer**, Computer Science and Engineering International University of Business Agriculture and Technology

🎓 EDUCATION

2018/19 - 2019/20	***M.Sc.* in Computer Science and Engineering** Jahangirnagar University (JU), Bangladesh | **CGPA - 3.90**
2013/14 – 2017/18	***B.Sc.* in Computer Science and Engineering** Jahangirnagar University (JU), Bangladesh | **CGPA - 3.56**
2012	***H.S.C* in Science** DHAKA CITY COLLEGE | **GPA - 5.00**
2010	***S.S.C* in Science** Monipur High School | **GPA - 5.00**

🏅 HONORS AND AWARDS

2017, 2018, 2019, 2020	**Yearly Academic Scholarship** Awarded to top students by Jahangirnagar University (JU)
2020	**Best Paper Award**, IEEE Region 10 Symposium (TENSYMP) 2020
2020-2021	**The Duke of Edinburgh's Award (Direct Gold)**, The Duke of Edinburgh's Award Foundation Bangladesh
2022	**Miyan Publication Award**, IUBAT - International University of Business Agriculture and Technology
2022-23	**National Science and Technology Fellowship**, Ministry of Science and Technology Bangladesh
2023-24, 2024-25, 2025-26	**University Grants Commission Financed Research,** University of Frontier Technology, Bangladesh
2024	**Research Publication Award 2024**, University of Frontier Technology, Bangladesh

📘 Publications

Journal Papers

1. Rajib Khan, **Tanjim Taharat Aurpa**, Md Saidur Rahman, Md. Ashrafuzzaman. PROSHNO BINNASH: Contextual Multi-Label Question Answering Dataset for Low-Resource NLP. *Data in Brief* (Journal Rank: Q3, Impact Factor – 1.4), 2025.

2. Md. Saiful Islam, Mahmuda Ferdusi, **Tanjim Taharat Aurpa**. Words of War: A Hybrid BERT-CNN Approach for Topic-Wise Sentiment Analysis on The Russia-Ukraine War. *Expert Systems with Applications* (Journal Rank: Q1, Impact Factor – 7.5), 2025.

3. **Tanjim Taharat Aurpa**, Md. Shahriar Hossain Apu, Farzana Akter, Richita Khandakar Rifat, Dr. Md. Ahsan Habib. NOIRBETTIK: A Reading Comprehension-Based Multiple Choice Question Answering Dataset in Bangla Language. *Data in Brief* (Journal Rank: Q3, Impact Factor – 1.4), 2024.

4. Nishat Tasnim, Asraf Ullah Rahat, **Tanjim Taharat Aurpa**, Md. Musfique Anwar. Bangla-REX: A Distinct Dataset for Bangla Relation Extraction. *Data in Brief* (Journal Rank: Q3, Impact Factor – 1.4), 2024.

5. **Tanjim Taharat Aurpa**, Kazi Noshin Fariha, Kawser Hossain, Samiha Maisha Jeba, Md. Shoaib Ahmed, Md. Rawnak Saif Adib, Farhana Islam, Farzana Akter. Deep Transformer-Based Architecture for the Recognition of Mathematical Equations from Real-World Math Problems. *Heliyon* (Journal Rank: Q1, Impact Factor – 3.6), 2024.

6. **Tanjim Taharat Aurpa**, Md. Shoaib Ahmed, Md. Mahbubur Rahman, Md. Golam Moazzam. InstructNet: A Novel Approach for Multi-Label Instruction Classification Through Advanced Deep Learning. *PLOS ONE* (Journal Rank: Q1, Impact Factor – 3.6), 2024.

7. Samiha Maisha Jeba, **Tanjim Taharat Aurpa**, Md. Rawnak Saif Adib. From Facebook Posts to News Headlines: Using Transformer Models to Predict Post-Disaster Impact on Mass Media Content. *Social Network Analysis and Mining* (Journal Rank: Q1, Impact Factor – 4.52), 2024.

8. **Tanjim Taharat Aurpa**, Kazi Noshin Fariha, Kawser Hossain. Shomikoron: Dataset to Discover Equations from Bangla Mathematical Text. *Data in Brief* (Journal Rank: Q3, Impact Factor – 1.4), 2024.

9. **Tanjim Taharat Aurpa**, Md. Shoaib Ahmed. An Ensemble Novel Architecture for Bangla Mathematical Entity Recognition (MER) Using Transformer-Based Learning. *Heliyon* (Journal Rank: Q1, Impact Factor – 3.6), 2024.

10. **Tanjim Taharat Aurpa**, Samiha Maisha Jeba, Md. Shoaib Ahmed, Mohammad Aman Ullah, Maria Mehzabin, Md. Musfique Anwar. BANGLA_MER: A Unique Dataset for Bangla Mathematical Entity Recognition. *Data in Brief* (Journal Rank: Q3, Impact Factor – 1.4), 2024.

11. **Tanjim Taharat Aurpa**, Richita Rifat Khandakar, Md. Shoaib Ahmed, Md. Musfique Anwar, A. B. M. Shawkat Ali. Reading Comprehension Based Question Answering System in Bangla Language with Transformer-Based Learning. *Heliyon* (Journal Rank: Q1, Impact Factor – 3.6), 2022.

12. Md. Shoaib Ahmed, **Tanjim Taharat Aurpa**, Md. Abul Kalam Azad. Fish Disease Detection Using Image-Based Machine Learning Technique. *Journal of King Saud University - Computer and Information Sciences* (Journal Rank: Q1, Impact Factor – 13.47), 2020.

13. Md. Shoaib Ahmed, **Tanjim Taharat Aurpa**, Md. Musfique Anwar. Detecting Sentiment Dynamics and Clusters of Twitter Users for Trending Topics in COVID-19 Pandemic. *PLOS ONE* (Journal Rank: Q1, Impact Factor – 3.6), 2021.

14. **Tanjim Taharat Aurpa**, Rifat Sadik, Md. Shoaib Ahmed. Abusive Bangla Comments Detection on Facebook Using Transformer-Based Deep Learning Models. *Social Network Analysis and Mining* (Journal Rank: Q1, Impact Factor – 4.52), 2021.

15. **Tanjim Taharat Aurpa**, Md. Shoaib Ahmed, Richita Rifat Khandakar, Md. Musfique Anwar, A. B. M. Shawkat Ali. UDDIPOK: A Reading Comprehension Based Question Answering Dataset in Bangla Language. *Data in Brief* (Journal Rank: Q2, Impact Factor – 1.4), 2023.

Conference Papers

1. **Tanjim Taharat Aurpa**, Samiha Maisha Jeba, Khaza Minhaz Bin Monib, Maherun Nessa Ela, Md Shoaib Ahmed, Md Musfique Anwar. Predictive Modeling of Fire Hazard: Integrating Environmental Factors with Machine Learning. 2025 International Conference on Electrical, Computer and Communication Engineering (ECCE), 2025.

2. Farzana Akter, **Tanjim Taharat Aurpa**, Farhana Islam, Md Saiful Islam, Md Ashrafuzzaman. Sentiment Analysis of Public Perception Toward Mob Justice. 2025 International Conference on Quantum Photonics, Artificial Intelligence, and Networking (QPAIN), 2025.

3. Samiha Maisha Jeba, Md Samiul Alom, Asm Shakil Ahamed, **Tanjim Taharat Aurpa**, Angkon Debnath, Satya Ranjan Dash, Md Shoaib Ahmed. Extracting Disaster Insights from Bangla News Using Text Categorization. 2025 International Conference on Quantum Photonics, Artificial Intelligence, and Networking (QPAIN), 2025.

4. **Tanjim Taharat Aurpa**, Samiha Maisha Jeba, Rajib Khan, Satya Ranjan Dash, Md Shoaib Ahmed. Deep Learning Analysis of Public Sentiment on the Padma Bridge Through YouTube Comments. International Conference on Signal Processing, Information, Communication and Systems, 2025.

5. Md Samiul Alom, Samiha Maisha Jeba, Angkon Debnath, **Tanjim Taharat Aurpa**, Rifat Siddiqua. Enhancing Sleep Disorder Diagnosis with a Machine Learning Approach Using Ensemble Neural Networks. 11th International Conference on Networking, Systems and Security, 2024.

6. Samiha Maisha Jeba, Rajib Khan, Md Shoaib Ahmed, **Tanjim Taharat Aurpa**, Satya Ranjan Dash. Sentiment Analysis on the Elevated Expressway in Bangladesh: A Machine Learning and Deep Learning Approach. 2024 IEEE International Conference on Power, Electrical, Electronics and Industrial Applications, 2024.

7. Samiha Maisha Jeba, **Tanjim Taharat Aurpa**, Md Samiul Alom, Md Wadud Mahmud Joy, Asm Shakil Ahamed, Satya Ranjan Dash, Md Shoaib Ahmed. Recognition of Data Breach Method from Story Using Advanced Deep Learning. 3rd International Conference on Innovation in Technology, 2024.

8. Samiha Maisha Jeba, **Tanjim Taharat Aurpa**, Farshid Hossain Siyam, Rajib Khan, Faniyam Maria Mansia. Analysis of Public Sentiment on Dhaka Metro Rail with Transformer-Based Architectures. 26th International Conference on Computer and Information Technology (ICCIT), 2024.

9. **Tanjim Taharat Aurpa**, Samiha Maisha Jeba, Shoaib Ullah Rasel. Ensemble Methods of Machine Learning Algorithms for Early Diabetic Detection in Comparison. 2023 1st International Conference on Circuits, Power and Intelligent Systems (CCPIS), 2023.

10. Fairuz Tanzim Achal, Mosammat Suraiya Ahmmed, **Tanjim Taharat Aurpa**. Severity Detection of Problematic Smartphone Usage (PSU) and its Effect on Human Lifestyle using Machine Learning. 2023 IEEE 8th International Conference for Convergence in Technology (I2CT), 2023.

11. **Tanjim Taharat Aurpa**, Md Shoaib Ahmed, Rifat Sadik, Sabbir Anwar, Md Abdul Mazid Adnan, Md Musfique Anwar. Progressive Guidance Categorization Using Transformer-Based Deep Neural Network Architecture. 21st International Conference on Hybrid Intelligent Systems (HIS) (Conference Rank: C), 2021.

12. Md Shoaib Ahmed, **Tanjim Taharat Aurpa**, Md Musfique Anwar. Online Topical Clusters Detection for Top-k Trending Topics in Twitter. IEEE/ACM International Conference on Advances in Social Networks Analysis and Mining (ASONAM) (Conference Rank: B4), 2020.

13. Md Shoaib Ahmed, **Tanjim Taharat Aurpa**, Md Musfique Anwar. Query Oriented Topical Clusters Detection for Top-k Trending Topics in Twitter. IEEE Region 10 Humanitarian Technology Conference (R10HTC), 2020.

14. **Tanjim Taharat Aurpa**, Fatema Khan, Md Musfique Anwar. Discovering and Tracking Query Oriented Topical Clusters in Online Social Networks. IEEE Region 10 Symposium (TENSYMP) (**Best Paper Award**), 2020.

⚖️ SELECTED ACADEMIC SERVICES

Journal Reviewer	PLOS One.
	Social Network Analysis and Mining.
	Journal of Super Computing.
	Scientific Report
	IEEE Access
	Engineering Application of Artificial Intelligence
Supervisor/Mentor	NXT Lab – Next-Generation Technologies Lab, UFTB
	Software Machine Intelligence Lab, UFTB
Award Leader	The Duke of Edinburgh Award
Advisor	UFTB Artificial Intelligence Community

⫼ SKILLS

Programming Languages	Python, C#, TypeScript, JavaScript, Java, C, C++, LaTeX.
Machine Learning	Algorithms, Neural network architectures, Data augmentation, Matplotlib, Pandas Numpy, Seaborn, Google Colab, Azure ML Studio, Keras, Tensorflow, etc.
Web Development	HTML, CSS, JavaScript, Bootstrap, AngularJs, Angular, ASP.NET, ASP.NET Core Django, Microservice architecture, Unit testing, API gateway, etc.
Databases	MySQL, MSSQL, SQLite, PostgreSQL, NoSQL (Firebase, MongoDB).
Misc.	Git, Docker, Matlab, XML, Highchart, Agile, Mqtt broker, Xamarin, etc.

⬢ MISCELLANEOUS EXPERIENCE & EXTRA CURRICULAR

28th October, 2025	**Chief Guest**, AI Revolution: Global Career in Data Science & Machine Learning, PeopleNTech Institute of IT
9th Sep, 2025	**Moderator**, Breaking Barriers: A Journey to Google, UFTB
12th April, 2025	**Keynote Speaker**,Women in Research: Inspiring the Next Generation of Female Researchers, Daffodill International University
2024	**Curriculum Committee Member**, Department of Data Science and Engineering, UFTB
2022	**Research Assistant**, Artificial Intelligence and Cybernetics (AGenCy) Lab, Independent University, Bangladesh
Dec, 2021	**Instructor (Python)**, Cell Genetics and Plant Biotechnology Laboratory, Jahangirnagar University
2020, 2021	**Microsoft Learn Student Ambassador**
2019, 2020, 2021	**Research Assistant**, JU Data Mining Research Lab, Jahangirnagar University
Dec 2019	**Bronze Honor**, Issued by International Math Challenge 2019
Mar 2018	**Delegate**, Bangladesh Youth Delegation to India 2018

🪪 References

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