

Tanjim Taharat Aurpa

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Objective

As an accomplished academic with 3 years of teaching experience and a commendable research portfolio of 21 publications, including 11 journal articles and 8 Q1 papers, I am currently leading as the founding chairperson of the Department of Data Science and Engineering, BDU. My research expertise lies in natural language processing and data science. I have also been honored with several research awards, including UGC research grants, for two consecutive years in my current affiliation. I am enthusiastic about utilizing my leadership and research capabilities to enhance academic programs and contribute to pioneering research initiatives in an esteemed educational institution.

Education

MSc in Computer Science and Engineering | Jahangirnagar University
May 2022 – August 2023

BSc in Computer Science and Engineering | Jahangirnagar University
March 2017 – February, 2022

Higher Secondary Certificate| Dhaka City College
Graduated July 2016

Secondary School Certificate| Monipur High School and College
Graduated May 2014,

Experiences

Chairperson

- Department of Data Science and Engineering
Bangabandhu Sheikh Mujibur Rahman Digital University, Bangladesh
March 2024-Present

Lecturer

- Department of Data Science and Engineering
Bangabandhu Sheikh Mujibur Rahman Digital University, Bangladesh
February 2024-Present

Lecturer

- Department of Educational Technology
Bangabandhu Sheikh Mujibur Rahman Digital University, Bangladesh
August 2023–February 2024

Lecturer

- International University of Business Agriculture and Technology

September 2022 – August 2023

Research Work (Citation: 356, H-index: 7, i10-index: 4)

Journal Paper

1. **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 in **Heliyon** (**JournalRank: Q1**). <https://doi.org/10.1016/j.heliyon.2024.e39089>
2. **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 in **Plos One** (**JournalRank: Q1**), 2024. <https://doi.org/10.1371/journal.pone.0311161>
3. 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. in **Social Network Analysis and Mining** (**JournalRank: Q1**), 2024. <https://link.springer.com/article/10.1007/s13278-024-01363-1>
4. **Tanjim Taharat Aurpa***, Kazi Noshin Fariha, Kawser Hossain. Shomikoron: Dataset to discover equations from Bangla Mathematical text in **Data in Brief** (**JournalRank: Q3**), 2024. <https://doi.org/10.1016/j.dib.2024.110742>
5. **Tanjim Taharat Aurpa***, Md Shoaib Ahmed. An ensemble novel architecture for Bangla Mathematical Entity Recognition (MER) using transformer based learning in **Heliyon** (**JournalRank: Q1**), Volume 10 , Issue 3, 2024. <https://doi.org/10.1016/j.heliyon.2024.e25467>
6. **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 in **Data in Brief** (**JournalRank: Q3**), 2024. <https://doi.org/10.1016/j.dib.2024.110407>.
7. **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** (**JournalRank: Q1**) <https://doi.org/10.1016/j.heliyon.2022.e11052>
8. 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, IF -13.473). Dec2020, DOI: 10.1016/j.jksuci.2021.05.003.
9. 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, IF -2.74). Jan2021, DOI: <https://doi.org/10.1371/journal.pone.0253300>.

10. **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. (JournalRank: Q1) DOI: <https://link.springer.com/article/10.1007%2Fs13278-021-00852-x>
11. **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 (JournalRank: Q2)** DOI: <https://doi.org/10.1016/j.dib.2023.108933>

Conference Paper:

1. 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 in **11th International Conference on Networking, Systems and Security. 2024**
2. 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 in **2024 IEEE International Conference on Power, Electrical, Electronics and Industrial Applications.**
3. 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 in **3rd INTERNATIONAL CONFERENCE ON INNOVATION IN TECHNOLOGY, 2024**. <https://ieeexplore.ieee.org/abstract/document/10512191/> (Indexed by Scopus)
4. 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 in **26th International Conference on Computer and Information Technology (ICCIT), 2024**. <https://ieeexplore.ieee.org/abstract/document/10441469> (Indexed by Scopus)
5. **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).** Doi: <https://doi.org/10.1109/CCPIS59145.2023.10291566> (Indexed by Scopus)
6. Fairuz Tanzim Achal, Mosammatt Suraiya Ahmmmed, **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).** (Indexed by Scopus)
7. **Tanjim Taharat Aurpa**, Md Shoaib Ahmed, Rifat Sadik, Sabbir Anwar, Md Abdul Mazid Adnan and Md Musfique Anwar. Progressive Guidance Categorization Using Transformer-Based Deep Neural Network Architecture. Accepted to the **21st International Conference on Hybrid Intelligent Systems (HIS 2021)** (Conference Rank: C). (Indexed by Scopus)
8. 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**

- (ASONAM2020). (Conference Rank: B4) Oct2020. (Indexed by Scopus)
<https://ieeexplore.ieee.org/document/9381305>
9. 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 (R10HTC2020)**. (Indexed by Scopus)
<https://ieeexplore.ieee.org/document/9357047>
10. **Tanjim Taharat Aurpa**, Fatema Khan and Md. Musfique Anwar. Discovering and Tracking Query Oriented Topical Clusters in OnlineSocial Networks. Accepted to **IEEE Region 10 Symposium (TENSYMP) 2020**, 5-7 June, 2020, Dhaka, Bangladesh. (Best Paper Award) (Indexed by Scopus)
<https://ieeexplore.ieee.org/document/9230994>

Achievement

1. **University Grants Commission Financed Research** in BDU 2024-25, BDU, 6 months
Project: Aspect based sentiment Analysis on Ukraine-Russia War
2. **University Grants Commission Financed Research** in BDU 2023-24, BDU, 6 months
Project: Multiple Choice Question Answering
3. **Miyan Publication Award**, IUBAT - International University of Business Agriculture and Technology, 2022
Project: Context Based Question Answering
4. **Best Paper Award**, IEEE Region 10 Symposium (TENSYMP) 2020, June 2020
Project: Topic wise Active Users Clustering
5. **The Duke of Edinburgh's Award (Direct Gold)**, The Duke of Edinburgh's Award Foundation Bangladesh, 2020-2021
6. **National Science and Technology Fellowship**, Ministry of Science and Technology Bangladesh, 2022-23
Project: Multilabel Instruction Classification

Academic Services

Reviewer

- Social Network Analysis and Mining (SNAM) **Journal Rank: Q1**
- Scientific Report **Journal Rank: Q1**
- IEEE Access **Journal Rank: Q1**
- Engineering Application of Artificial Intelligence **Journal Rank: Q1**
- PLoS One **Journal Rank: Q1**
- Journal of Super Computing **Journal Rank: Q2**

Skills

Latex, Cloud Computing, Python, Java, C, C++, Html, CSS, Bootstrap, JavaScript, Spring Boot, Adobe After Effects, Camtasia, Content Writing