

Syed Tangim Pasha

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EDUCATION

Daffodil International University (DIU)

B.Sc. in Computer Science and Engineering (CSE); CGPA: 3.91/4.00

Thesis: Genre Classification of Bangla Poem Using Machine Learning and Deep Learning Techniques

Dhaka, Bangladesh

Jan 2017 – Jan 2021

WORK EXPERIENCE

Independent University, Bangladesh (IUB)

Adjunct Lecturer, Department of Computer Science and Engineering (CSE)

- Courses: **Introduction to Computer Science Lab**

Dhaka, Bangladesh

May 2024 – Present

Daffodil International University (DIU)

Lecturer, Department of Computing and Information System (CIS)

- Mentored 10 final-year student projects
- Arranged seminars, programming competitions
- Courses: **Structured Programming, Algorithms, System Analysis & Design, Operating System, Artificial Intelligence, Machine Learning**

Dhaka, Bangladesh

Jan 2022 – Jan 2024

Daffodil International University (DIU)

Lab Prefect, Department of Computer Science and Engineering (CSE)

- Lab Prefect for **Structured Programming Lab**
- Assisted lab teacher with lab work, assignment marking, student counseling

Dhaka, Bangladesh

May 2018 – Aug 2018

RESEARCH EXPERIENCE

CCDS Lab, IUB (ccds.ai)

Research Assistant (RA)

- Working in the HCI Wing under the supervision of **Dr. Ashraful Islam**
- Working on human stress disorder and other health informatics research

Dhaka, Bangladesh

Feb 2024 – Present

STANDARDIZE TEST SCORE

International English Language Testing System (IELTS)

Overall: 7.0 | *Listening* : 8.0 | *Speaking* : 7.0 | *Reading* : 6.5 | *Writing* : 6.5

RESEARCH PUBLICATIONS

1. Jahanggir Hossain Setu, **Syed Tangim Pasha**, Nabarun Halder, Ashraful Islam, Md Zahangir Alam, “A Web Application-Based Approach to Myocardial Infarction Detection From ECG Image Reports Utilizing ResNet”, 23rd International Conference on Machine Learning and Applications (ICMLA) (**IEEE ICMLA 2024**). [Accepted] [Core Rank: C]
2. Jahanggir Hossain Setu, Mahmudul Islam, **Syed Tangim Pasha**, Nabarun Halder, Ekram Hossain, Asif Mahmud, Ashraful Islam, Md Zahangir Alam, M. Ashraful Amin “Segment Anything Model (SAM 2) Unveiled: Functionality, Applications, and Practical Implementation Across multiple Domains”, published in **Preprints.org**. [Preprint]
3. **Syed Tangim Pasha**, Nabarun Halder, Tasnuba Badrul, Jahanggir Hossain Setu, Ashraful Islam, Md Zahangir Alam, “Physiological Signal Data-Driven Workplace Stress Detection Among Healthcare Professionals Using BiLSTM-AM and Ensemble Stacking Models”, IEEE 2024 International Advances in Science & Engineering Technology (ASET) Multi-Conferences (**IEEE ASET 2024**). [Accepted]
4. M. T. Hoque, **Syed Tangim Pasha**, R. Khanam, A. Islam, M. Z. Alam, M. N. Huda, “Performance Evaluation of Multi-class Bangla Public Sentiment Analysis Using Machine Learning and Embedding Techniques”, 11th International Conference on Informatics, Electronics & Vision (**ICIEV 2023**). [Accepted]

5. **Syed Tangim Pasha**, Ashraful Islam, Sankar Sikder, Md Tarek Habib, Md Zahangir Alam, M Ashraful Amin, “Using an Ensemble Machine Learning Model with Explainable AI (XAI) to Diagnose Gestational Diabetes Mellitus”, (**IDF Virtual Congress 2023**)
6. M. M. Rahman, Ashraful Islam, **Syed Tangim Pasha**, M. Usama Islam, Md Zahangir Alam, “A Federated Learning Approach for Type-2 Diabetes Detection Using a Naive Bayes Classifier”, (**IDF Virtual Congress 2023**).
7. **Syed Tangim Pasha**, Ashraful Islam, Eshtiak Ahmed, Mohammed Masudur Rahman, Md. Ferdouse Ahmed Foysal, Md. Zahangir Alam, “Genre Classification of Bangla Poem Using Machine Learning and Deep Learning Techniques”, IEEE World AI IoT Congress 2023 (**IEEE AIIoT 2023**). [Acceptance Rate: 39%] [B.Sc. Thesis]
8. Md. Ferdouse Ahmed Foysal, **Syed Tangim Pasha**, Sheikh Abujar, Syed Akhter Hossain, “Bengali News Classification Using Long Short Term Memory”, 2nd International Conference on Emerging Technologies in Data Mining and Information Security (**IEMIS-2020**).

PROJECTS

Bangla Poem Dataset | [Mendeley Data](#)

- Collected & Preprocessed 2207 poems from [banglarkobita](#) of 11 different categories from 41 authors.

Online Voting System With Linked list Data Structure | [GitHub](#)

- Investigated data privacy through an online voting system.
- Constructed the system using the linked list data structure.
- Summarized the need for privacy before using any software.

SKILLS

Programming: C, C++, Python, Java, MySQL

ML Library: scikit-learn, Tensorflow, PyTorch, Keras, Numpy, Pandas, Matplotlib, Seaborn

Miscellaneous: Git, Google Colab, Zotero, Overleaf, L^AT_EX

AWARDS & ACHIEVEMENTS

University SGPA Scholarship of Daffodil International University, (DIU), Dhaka, Bangladesh

Achieved tuition fee waivers depending on semester GPA during the undergraduate course of study

DIU Teaching Apprentice Fellowship (TAF) 2022 Training and Workshop

Earned Teaching Apprentice Fellow (TAF) from both the CSE and the SWE departments.

DIU Teacher’s Training Program of ”Make My Teaching Visible”

Organized by: Tazkera and Golam Mustafa center for teaching and learning

Enhancing Student’s Programming Skills through Problem Solving (BUBT ICPC Dhaka Regional Coach Seminar)

Organized by: Department of CSE, BUBT, Dhaka, Bangladesh

OTHER PROFESSIONAL SERVICES

Daffodil International University

B.Sc. in IoT Syllabus Committee Member, Department of CIS

Dhaka, Bangladesh

Jan 2023 – May 2023

Daffodil International University

Exam Committee Member, Faculty of Science and Information Technology (FSIT)

Dhaka, Bangladesh

Jan 2023 – January 2024

Daffodil International University

Thesis/Project Committee Member, Department of CIS

Dhaka, Bangladesh

Jan 2023 – January 2024

REFERENCES

Dr. Ashraful Islam

Assistant Professor, Department of Computer Science and Engineering
Independent University Bangladesh (IUB), Dhaka, Bangladesh
Email: ashraful@iub.edu.bd

Dr. Nur Imtiazul Haque

Visiting Assistant Professor, Department of Computer Science and Engineering
University of Cincinnati, Ohio, United States
Email: haquenl@ucmail.uc.edu

Subroto Nag Pinku

Software Developer, Siemens
Siemens Digital Industries Software, Saskatoon, Saskatchewan, Canada
Email: subroto.npi@gmail.com