

Syed Tangim Pasha

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EDUCATION

Daffodil International University (DIU)

Dhaka, Bangladesh

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

Jan 2017 – Jan 2021

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

WORK EXPERIENCE

Independent University, Bangladesh (IUB)

Dhaka, Bangladesh

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

May 2024 – Present

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

Daffodil International University (DIU)

Dhaka, Bangladesh

Lecturer, Department of Computing and Information System (CIS)

Jan 2022 – Jan 2024

- Taught 16 credits in every semester
- Advised 15 final year projects
- Mentored more than 250 students every semester
- Arranged seminars, programming competitions
- Courses: **Structured Programming, Algorithms, System Analysis & Design, Operating System, Artificial Intelligence, Machine Learning**

Daffodil International University (DIU)

Dhaka, Bangladesh

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

May 2018 – Aug 2018

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

RESEARCH EXPERIENCE

CCDS Lab, IUB (ccds.ai)

Dhaka, Bangladesh

Research Assistant (RA)

Feb 2024 – Present

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

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. **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]
2. 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]
3. **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**)

4. 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**).
5. **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]
6. 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

M.Sc. in AI Syllabus Committee Member, Department of CIS

Dhaka, Bangladesh

April 2023 – January 2024

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

Nur Imtiazul Haque

Lecturer, Department of Computer Science and Engineering
Daffodil International University (DIU), Dhaka, Bangladesh
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Subroto Nag Pinku

Software Developer, Siemens
Siemens Digital Industries Software, Saskatoon, Saskatchewan, Canada
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