Mohammed Abdul Al Arafat Tanzin

◆ Dhaka, Bangladesh☑ tanzinabdul@gmail.com♣ +880 1795 064368� Visit My Website ☑in linkedin profile♠ Github♠ Google Scholar

Personal Statement _

A fast learner passionate about creating useful solutions and driving revolutionary change. Skilled in Machine Learning, AI, and NLP, with hands-on experience in emotion detection and sentiment analysis. Always eager to learn and innovate, I aim to leverage technology to improve lives and empower communities. Seeking opportunities to grow and make a meaningful impact.

Skill Summary _____

- **Programming Languages**: Python, C
- Machine Learning & AI: Regression, Classification, Deep Learning, NLP, Large Language Models (LLMs)
- Frameworks & Tools: TensorFlow, PyTorch, Scikit-learn, Pandas, Numpy
- Data Analysis & Visualization: Matplotlib, Seaborn
- Databases: MySQL, Sqlite
- Web Development: Flask, Django
- **Version Control**: Git, GitHub
- Soft Skills: Problem-solving, Adaptability, Team Collaboration, Leadership

Education _

BSc BRAC University
Bachelor of Science in Computer Science & Engineering
Dhaka, Bangladesh

CGPA: 3.61/4.0 (Final semester)

HSCB A F Shaheen CollegePassing Year 2021Higher Secondary Certificate (HSC), ScienceChattogram, Bangladesh

GPA: 5.00/5.00

SSC Chattogram Ideal High School Passing Year 2018
Secondary School Certificate, Science Chattogram, Bangladesh

Secondary School Certificate, Science GPA: 5.00/5.00

Experience _

HOMELAND LIFE INSURANCE LIMITED, Data Analyst

Dhaka, Bangladesh | August 2023 – Present

- Forecasted company growth and optimized data-driven strategies, contributing to a 17% increase in underperforming regions.
- Developed machine learning models to analyze historical data and improve customer segmentation.

Publications (C = Conference, J = Journal) _

[J.1] Advanced Neural Network Architectures for Tomato Leaf Disease Diagnosis in Precision Agriculture.

Discover Sustainability- Q2 Journal

Shashi Kant, Hritwik Ghosh, Irfan Sadiq Rahat, Md. Mintajur Rahman Emon, Md. Jisan Mashrafi, *Mohammed Abdul Al Arafat Tanzin*, Sachi Nandan Mohanty

Status: Accepted (Dec 2024), link will be available soon

PDF 🗹

[C.1] Forecasting Literacy Development in Bangladesh: A Comparative Study of Machine Learning and Hybrid Approaches. ECCE 2025

Mohammed Abdul Al Arafat Tanzin, Md. Jisan Mashrafi, Muhammad Iqbal Hossain

Status: Accepted (Feb 2025), link will be available soon, Dataset Link 🗹

Certificate **☑**

[C.2] PhishVQC: Optimizing Phishing URL Detection with Correlation Based Feature Selection and Variational Quantum Classifier. ISACC 2025

Md. Farhan Shahriar, Gazi Tanbhir, Abdullah Md Raihan Chy, *Mohammed Abdul Al Arafat Tanzin*, Md. Jisan Mashrafi

Status: Accepted ☑**,** Publication link will be available soon

Certificate **☑**

[C.3] Hybrid Convolutional Neural Network and Random Forest Model for Predicting Water Level Fluctuations in Kaptai Reservoir to Enhance Water Resource Management. ECCE 2025

Anik Sarkar, Md. Farhan Shahriar, Abdullah Md Raihan Chy, *Mohammed Abdul Al Arafat Tanzin*, Md. Jisan Mashrafi, Abrar Fahim

Status: Accepted (Feb 2025), link will be available soon

Certificate ☑

Projects _

[P1] ClusSumm: A Hybrid and Clustering-Based Approach for Concise and Quality-Preserved Summarization of Online Course Reviews (Jan 2025)

Developed ClusSumm, a hierarchical clustering-based NLP framework, to summarize learner feedback across domains (AI, ML, Cybersecurity, Web Development) with 12.65% summarization ratio, outperforming state-of-the-art models and enabling actionable insights for online education platforms.

Status: Completed and being submitted in a journal

Pre-print Paper Link 🗹

Dataset Link ☑

[P2] Mitigating Misleading Metrics: A Hybrid Model for Accurate Audience Sentiment Analysis (Dec 2024)

Developed a hybrid ML framework combining sentiment analysis of user comments with engagement metrics to mitigate misleading like/dislike ratios, providing a reliable and transparent assessment of audience sentiment for digital content.

Status: Completed

Pre-print Paper Link 🗹

Dataset Link 🗹

[P3] Rentorium: A Peer-to-Peer Rental and Borrowing Platform (Apr 2024)

Developed a Django-based web platform enabling users to rent out unused items or borrow items for occasional use, promoting a cost-effective and sustainable sharing economy. Implemented secure user authentication, listing management, and rental transaction tracking. Designed an intuitive UI for seamless user experience and integrated a payment system for hassle-free transactions.

Status: Completed Github Link 🗹

Honors & Awards ___

• Reviewer, SCOPE - ICLR 2025 Workshop

Nominated by the Program Chair of SCOPE - ICLR 2025 as an urgent reviewer.

Feb 2025

• Runner-Up, National Soccer Bot Competition

Issued by: Robotics Club of BRAC University

Mar 2023 Dhaka, Bangladesh

- Recognized for robotics and programming excellence, securing runner-up in a national competition.

Certifications _____

•	• Machine Learning S	pecialization (Authorized by	v: DeepLearning.AI, (Coursera, Stanford CPD, UVM)	Dec 2024

Participation in IT Olympiad of "CSE FEST 2024" (Authorized by: East West University)
 Apr 2024

• Python (Basic), Problem Solving (Basic) Certificate (Authorized by: HackerRank) Dec 2023

• IELTS Academic: Overall Band Score: 6.0 (Listening: 6.0, Reading: 6.0, Writing: 6.0, Speaking: 6.5)

Jun 2023

• Introduction to Generative AI (Authorized by: Google Cloud Skills Boost)

May 2024

• Introduction to Large Language Models (Authorized by: Google Cloud Skills Boost)

May 2024

References _____

1. Dr. Swakkhar Shatabda

Professor, BRAC University Email: swakkhar.shatabda@bracu.ac.bd Independent Research Supervisor

3. Dr. Muhammad Iqbal Hossain

Associate Professor, BRAC University Email: iqbal.hossain@bracu.ac.bd Independent Research Supervisor, Course Instructor

2. Dr. Md. Golam Rabiul Alam

Professor, BRAC University Email: rabiul.alam@bracu.ac.bd Thesis Supervisor, Course Instructor

4. M A Motin

Chief Executive Officer, Homeland Life Insurance Limited Email: mamotin64@gmail.com

Professional Reference