

Tasfia Zaman

Adjunct Lecturer | AI Researcher

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Profile

Summary: Adjunct Lecturer at BRAC University and AI researcher interested in language-model unlearning, knowledge editing, mechanistic interpretability, and representation learning. BSc in Computer Science and Engineering from BRAC University with a CGPA of 3.99/4.00.

Education

BRAC University , Computer Science and Engineering - Member of the Robotics Club of BRAC University and Junior Executive at the BRAC University Community Service Club. - Participated in Inter University Programming Contests. - Named to the VC's List in 10 of 11 semesters and received a 75% merit-based scholarship.	Dhaka, Bangladesh 2022 – 2026
Feni Girls' Cadet College , Science - Served as Junior Prefect in 2018 and House Cultural Prefect in 2019. - Received Talent Pool Scholarships for JSC and SSC and a General Scholarship for HSC. - Named Senior Group Best Athlete in 2019 and reached the quarter-finals of the 13th National English Parliamentary TV Debate Competition in 2018.	Feni, Bangladesh 2014 – 2020

Experience

BRAC University , Adjunct Lecturer Teaching undergraduate classes in the Department of Computer Science and Engineering.	Dhaka, Bangladesh June 2026 – present 2 months
Independent Research Collaboration , Research Assistant Worked with a Germany-based Research Associate on knowledge editing in large language models through associative-memory-based modifications to Transformer architectures.	Remote
BRAC University , Student Tutor (Undergraduate TA) Provided structured academic support for students in 100- and 200-level CSE courses. - Delivered approximately 15 hours of support per week through lab assistance and one-to-one consultations. - Developed individualized tutoring plans and guided students on assignments and quizzes. - Tracked student progress, maintained contact-hour records, and reported regularly to an academic supervisor.	Dhaka, Bangladesh Nov 2024 – May 2025 7 months

Volunteer

BRAC University , Tutor, Project Srijon Contributed to a civic-engagement initiative supporting underprivileged students in grades 6-8. - Facilitated lessons on basic ICT, safe internet use, social awareness, and adolescent well-being. - Supported small-group and one-to-one learning through discussion, roleplay, project work, and interactive activities.	Savar, Bangladesh
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Publications

Representation-Aware Unlearning via Activation Signatures: From Suppression to Entity-Signature Erasure

Representation-aware unlearning through activation signatures for durable knowledge erasure. Tasfia Zaman and Md. Rezaur Rahman Bhuiyan contributed equally.
Syed Naveed Mahmood, Md. Rezaur Rahman Bhuiyan, Tasfia Zaman, Jareen Tasneem Khondaker, Md. Sameer Sakib, K. M. Shadman Wadith, Nazia Tasnim, Farig Sadeque
arxiv.org/abs/2601.10566

Projects

HyperCite - AI Research Summarization & Collaboration Hub

Collaborative research platform for grounded AI assistance, paper organization, and source-anchored citation verification.

- Ranked first among 120+ projects at the BRACU CSE471 System Analysis and Design Project Showcase in Fall 2025.
- Built a hybrid RAG pipeline combining MongoDB Atlas vector search with lexical fallback and cross-paper chunk diversification.
- Implemented page-level, excerpt-anchored citations and real-time collaborative annotation with Liveblocks.
- Built with React, TypeScript, Node.js, Express, MongoDB, Supabase, and Liveblocks.

Mewply - Music Streaming Platform

MERN music-streaming platform with separate user, administration, and backend applications.

- Designed REST APIs following MVC patterns with JWT and Bcrypt authentication.
- Built responsive audio playback and playlist management.
- Integrated Cloudinary for media storage and streaming.

HambaMart - Livestock E-commerce Platform

Django marketplace supporting buyers, sellers, administrators, products, transactions, and inventory workflows.

- Designed the EER diagram and relational database schema.
- Implemented filtered search using Django ORM.
- Added role-based access control and a template-driven frontend.

Awards

System Analysis and Design Project Showcase Ranked first among 120+ teams for HyperCite.	BRAC University 2025
Thesis Poster Presentation Placed second among 150+ teams.	BRAC University 2025
Next Gen Ideathon First runner-up.	Bioinformatics Track 2025
VC's List Named to the VC's List in 10 of 11 semesters.	BRAC University 2022-2025
Merit-Based Scholarship Received a 75% tuition scholarship based on academic performance.	BRAC University 2023-2025

Skills

Languages: Python, C/C++, Java, JavaScript/TypeScript, SQL, HTML/CSS, LaTeX, Bash

Frameworks and Libraries: PyTorch, Hugging Face Transformers, NumPy, Pandas, JAX, React, Node.js/Express, Django

Tools and Databases: Git, Postman, MongoDB, MySQL/MariaDB, Firebase, Cloudinary, Supabase, Liveblocks

Certificates

IELTS Academic

Mar 2026

Overall Band 8.5 - Listening 9, Reading 8.5, Writing 8, Speaking 8.

Languages

Bangla

Native

English

Fluent; IELTS Academic Overall Band 8.5

Interests

AI Research: Language-model unlearning, knowledge editing, mechanistic interpretability, representation learning

References

Kabbya Kantam Patwary: Lecturer, Department of Computer Science and Engineering, BRAC University. Course instructor and competitive programming coach.

Farig Yousuf Sadeque: Associate Professor, Department of Computer Science and Engineering, BRAC University. Thesis supervisor.