Md. Faiyaz Abdullah Sayeedi

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Research Interests

Natural Language Processing · Multilingualism · AI Agents · Multimodal Learning · Knowledge Representation

Education

B.Sc. in Computer Science and Engineering, United International University, Dhaka *2021 – 2025*

- **GPA:** 3.98 / 4.00 **Major:** Data Science
- **Thesis:** Translation Tangles: Performance Benchmarking and Bias Detection in LLM-Based Translation Across Language Families and Domains ACL 2026 [C7]
- **Supervisors:** Swakkhar Shatabda, Md. Mofijul Islam, Tasnim Mohiuddin
- **Notable Courseworks:** Digital Image Processing, Data Mining, Bioinformatics, Human–Computer Interaction

Experience

Research Assistant, BRAC University, Dhaka *Mar 2026 – Present*

- Project: *AI-Powered Contradiction and Conflict Detection in Evolving Documents* EACL 2027 [C1]
- Building NLP pipelines that surface logical inconsistencies and temporal conflicts across document versions

Research Assistant, Center for Computational & Data Sciences (CCDS), IUB *May 2025 – Feb 2026*

- Project: *Route, Retrieve, Reflect, Repair: An Agentic Framework for Self-Improving Medical Vision-Language Reasoning for Low-Resource Languages* [paper]
- Developed multimodal architectures for clinical decision support and linguistic reasoning in medical diagnostics

AI Intern, Ontik Technology, Bangladesh *Mar 2025 – May 2025*

- Built solutions using Large Language Models, Retrieval-Augmented Generation (RAG), and agentic workflows
- Managed requirements and delivery for international clients

Undergraduate Teaching Assistant, United International University, Dhaka *Nov 2023 – Jan 2025*

- Courses: Artificial Intelligence; Data Structures and Algorithms II; Introduction to Computer Systems
- Prepared course materials and tutored students in C, C++, Python, Machine Learning, and Deep Learning

Selected Publications

* denotes equal contribution.

Conference Papers

[C1] Time Present and Time Past: Benchmarking Large Language Models on Temporally Evolving Document Understanding
Md. Faiyaz Abdullah Sayeedi*, Mahbub E Sobhani*, Fahmid Hasan Chowdhury, Md Adnan Arefeen, Farig Sadeque, Md. Faizul Bari, Swakkhar Shatabda
Conference of the European Chapter of the Association for Computational Linguistics EACL 2027 Findings [paper]

[C2] BanTMedQA: A Multimodal Benchmark for Open-Ended Bangla Medical Question Answering
Md. Faiyaz Abdullah Sayeedi*, Rafid Ahmed*, Fariha Anjum Shifa, Mir Sazzat Hossain, Faria Iffat Reshma, Mahbub E Sobhani, Md Fahim, Md Farhad Alam Bhuiyan
Conference of the European Chapter of the Association for Computational Linguistics EACL 2027 Main

[C3] To What Extent Do Large Language Models Understand Bangla Idioms?
Mousumi Akter, **Md. Faiyaz Abdullah Sayeedi**, Nurul Labib Sayeedi, Swakkhar Shatabda
Conference of the European Chapter of the Association for Computational Linguistics EACL 2027 Findings [paper]

[C4] EGAL: Evidence-Grounded Multi-Agent Adversarial Learning at Inference Time for Research Ideation
Riasad Alvi, Md. Ahashan Habib, **Md. Faiyaz Abdullah Sayeedi**
Conference of the European Chapter of the Association for Computational Linguistics EACL 2027 Findings

[C5] Entropy-Gated Dynamic Rectification for Object Hallucination in Large Vision-Language Models
Riasad Alvi, Md. Asaduzzaman Shuvo, Md. Ahashan Habib, **Md. Faiyaz Abdullah Sayeedi**
IEEE/CVF Winter Conference on Applications of Computer Vision WACV 2027

[C6] Many Dialects, Many Languages, One Cultural Lens: Evaluating Multilingual VLMs for Bengali Culture Understanding Across Historically Linked Languages and Regional Dialects

Md. Faiyaz Abdullah Sayeedi[*], Nurul Labib Sayeedi[*], Shubhashis Roy Dipta, Rubaya Tabassum, Ariful Ekraj Hridoy, Mehraj Mahmood, Mahbub E Sobhani, Md Tarek Hasan, Swakkhar Shatabda
Conference on Empirical Methods in Natural Language Processing EMNLP 2026 Findings [paper] [code] [dataset]

[C7] Ready to Translate, Not to Represent? Bias and Performance Gaps in Multilingual LLMs Across Language Families and Domains
Md. Faiyaz Abdullah Sayeedi[*], Md Mahbubul Alam[*], Subhey Sadi Rahman[*], MD. Adnanul Islam[*], Jannatul Ferdous Deepty[*], Tasnim Mohiuddin, Md. Mofijul Islam, Swakkhar Shatabda
Annual Meeting of the Association for Computational Linguistics ACL 2026 Findings [paper] [code & data]

[C8] MathMist: A Parallel Multilingual Benchmark Dataset for Mathematical Problem Solving and Reasoning
Mahbub E Sobhani, **Md. Faiyaz Abdullah Sayeedi**, Tasnim Mohiuddin, Md Mofijul Islam, Swakkhar Shatabda
Conference of the European Chapter of the Association for Computational Linguistics EACL 2026 Findings [paper] [code] [dataset]

[C9] Can LLMs Solve My Grandma's Riddle? Evaluating Multilingual Large Language Models on Reasoning Traditional Bangla Tricky Riddles
Md. Faiyaz Abdullah Sayeedi[*], Nurul Labib Sayeedi[*], Khushnur Binte Jahangir, Swakkhar Shatabda, Sarah Masud Preum
Joint Conference on Lexical and Computational Semantics *SEM 2026 Poster [paper] [code]

[C10] MosquitoFusion: A Multiclass Dataset for Real-Time Detection of Mosquitoes, Swarms, and Breeding Sites Using Deep Learning
Md. Faiyaz Abdullah Sayeedi, Md Ashiqur Rahman, Fahim Hafiz
International Conference on Learning Representations, Tiny Papers Track ICLR 2024 Oral Notable – Top 5% [paper] [code] [dataset]

[C11] MosquitoMiner: A Light Weight Rover for Detecting and Eliminating Mosquito Breeding Sites
MD. Adnanul Islam, **Md. Faiyaz Abdullah Sayeedi**, Jannatul Ferdous Deepti, Shahanur Rahman Bappy, Safrin Sanzida Islam, Fahim Hafiz
IEEE Region 10 Symposium TENSYMP 2024 Oral [paper] [code] [talk] [demo]

Journal Articles

[J1] JailbreakTracer: Explainable Detection of Jailbreaking Prompts in LLMs Using Synthetic Data Generation
Md. Faiyaz Abdullah Sayeedi, Maaz Bin Hossain, Md Kamrul Hassan, Sabrina Afrin, Molla Md Sabit, Md Shohrab Hossain
IEEE Access 2025 [paper] [code] [dataset]

[J2] ElectroCom61: A Multiclass Dataset for Detection of Electronic Components
Md. Faiyaz Abdullah Sayeedi, Anas Mohammad Ishfaqul Muktadir Osmani, Taimur Rahman, Jannatul Ferdous Deepti, Raiyan Rahman, Salekul Islam
Data in Brief 2024 [paper] [code] [dataset]

Workshop Papers

[W1] MultiHaluDet: Multilingual Hallucination Detection via LLM Hidden State Probing
Riasad Alvi, Nurul Labib Sayeedi, **Md. Faiyaz Abdullah Sayeedi**
Workshop on Multilinguality in the Era of Large Language Models MeLLM @ ACL 2026 [paper] [code]

[W2] VisText-Mosquito: A Unified Multimodal Benchmark Dataset for Visual Detection, Segmentation, and Textual Reasoning on Mosquito Breeding Sites
Md. Faiyaz Abdullah Sayeedi[*], Md. Adnanul Islam[*], Md. Asaduzzaman Shuvo, Shahanur Rahman Bappy, Muhammad Ziaur Rahman, Md Asiful Islam, Swakkhar Shatabda
Workshop on Vision Intelligence for Real-World Challenges CVPRW 2026 [paper] [code] [dataset]

[W3] Do Multi-Agents Solve Better Than Single? Evaluating Agentic Frameworks for Diagram-Grounded Geometry Problem Solving and Reasoning
Md. Faiyaz Abdullah Sayeedi[*], Mahbub E Sobhani[*], Mohammad Nehad Alam, Proma Hossain Progga, Swakkhar Shatabda
Student Research Workshop SRW @ EACL 2026 [paper] [code]

[W4] Rethinking Search: A Study of University Students' Perspectives on Using LLMs and Traditional Search Engines in Academic Problem Solving
Md. Faiyaz Abdullah Sayeedi, Md. Sadman Haque, Zobaer Ibn Razzaque, Robiul Awoul Robin, Sabila Nawshin
Workshop on Bridging Human–Computer Interaction and NLP HCI+NLP @ EMNLP 2025 [paper]

Research Supervision

I believe strongly in academic outreach and actively mentor aspiring researchers from Bangladesh.

Nurul Labib Sayeedi MeLLM @ ACL 2026 [W1], EMNLP 2026 [C6] *Jan 2025 – Present*

Riasad Alvi MeLLM @ ACL 2026 [W1], WACV 2027 [C5], EACL 2027 [C4] *Feb 2025 – Present*

Selected Projects

MosquitoMiner, autonomous rover for detecting and eliminating mosquito breeding sites *[code]*

- Deep-learning models trained on a custom dataset drive navigation and breeding-ground identification

MoscProtec, web platform for mosquito-borne disease data and public support *[code]*

- YOLO-based detection of mosquito species and breeding sites; aggregates and analyses disease reports

UIU Healthcare Management System, end-to-end healthcare management web app *[code]*

- Appointment booking, digital prescriptions, and nearest-hospital lookup via real-time GPS

Selected Awards & Honors

- **ICLR 2024 Travel Grant** — USD 1,500 to present in person in Vienna, Austria
- **100% Scholarship Award**, United International University — for academic excellence, 11 of 12 trimesters
- **Finalist**, National Blockchain Olympiad Bangladesh
- **Best Poster Award**, CSE Project Show Spring 2024 (Final Year Design Project), UIU
- **Champion**, Python for AI and ML Competition 2024, UIU App Forum
- **Champion**, CSE Project Show, UIU — Fall 2022 (Advanced OOP), Spring 2024 (Software Engineering), Summer 2024 (Microprocessor & Microcontroller Lab)

Academic Service

Reviewer — Conferences & Workshops

- ACL Rolling Review – May, August
- 15th Joint Conference on Lexical and Computational Semantics (*SEM 2026), co-located with ACL 2026
- Muslims in ML (MusIML) Workshop, ICML 2025
- Bangla Language Processing (BLP) Workshop, IJCNLP–AACL 2025

Reviewer — Journals

- Communications AI & Computing, Springer Nature
- Journal of Medical Systems, Springer Nature
- International Journal of Data Science and Analytics, Springer Nature

Teaching & Mentoring

- **Instructor**, Machine Learning (CSE 4889) session, Computronix Academy Spring 2024, UIU App Forum
- **Mentor**, Peer Mentorship Program, UIU Computer Club

Skills

Programming	Python, C, C++, Java, SQL, Bash
ML / DL	PyTorch, PyTorch Lightning, TensorFlow, Keras, Scikit-learn, Hugging Face Transformers, OpenCV
NLP & LLM Tooling	spaCy, NLTK, Flair, LangChain, CrewAI
Data & Viz	NumPy, Pandas, Matplotlib, Seaborn
Web	HTML, CSS, JavaScript, PHP
Hardware	ESP32, Arduino, Raspberry Pi
Tools	Git, GitHub, LaTeX

References

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Md. Mofijul Islam
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