

Md. Ataulha

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EDUCATION

Shahjalal University of Science and Technology <i>M.Eng. in Computer Science and Engineering</i>	Oct 2025 – Ongoing
Shahjalal University of Science and Technology <i>B.Sc. in Computer Science and Engineering</i>	Feb 2019 – Feb 2024 <i>CGPA: 3.74/4.00</i>
Notre Dame College, Dhaka <i>Higher Secondary Certificate</i>	Jun 2016 – Jan 2018 <i>GPA: 5.00/5.00 (Scholarship)</i>
Shamsul Hoque Khan School and College, Dhaka <i>Secondary School Certificate</i>	Jan 2009 – Feb 2016 <i>GPA: 5.00/5.00</i>

WORK EXPERIENCE

Lecturer, Department of CSE — Green University of Bangladesh	Jan 2025 – Present
– Teaching Machine Learning, Data Mining, Natural Language Processing, Object-Oriented Programming, Operating Systems, Integrated Design Project, and Computational Thinking. – Co-supervising 10+ undergraduate thesis groups on NLP, speech processing, LLM evaluation, and applied artificial intelligence. – Advising project teams on applied AI, including development of a medical image diagnosis system. – Served as a member of the Departmental Internship Coordination Board for five consecutive semesters, supporting internship planning, coordination, and student-industry engagement.	
AI Engineer — Synesis IT PLC	Mar 2024 – Feb 2025
– Designed an AI voicebot for the Bangladesh Election Commission (Project 105). – Enhanced Bangla-English ASR for out-of-vocabulary word handling and speaker diarization using Pyannote. – Built Azure-hosted MLM- and LLM-based conversational chatbots. – Integrated real-time Bangla-English closed captioning using ASR. – Contributed to SIT Convay denoiser improvements for speech-quality enhancement.	

RESEARCH EXPERIENCE

Expressive Code-Mixed Bangla TTS with Code-Mix Normalization (M.Eng. Thesis)	Ongoing
– Supervisor: Prof. Dr. M. Shahidur Rahman, Department of CSE, Shahjalal University of Science and Technology (SUST). – Developing an expressive Bangla-English code-mixed TTS framework that integrates a dedicated code-mix normalization front end with speech synthesis to improve handling of mixed-language text.	
UGC-Funded Code-Mixed Bangla TTS Project — Research Assistant, SUST	2025 – 2026
– Completed the UGC-funded research project as a Research Assistant under Prof. Dr. M. Shahidur Rahman. – Contributed to the research and development of a Bangla-English code-mixed TTS pipeline, including language normalization and speech-synthesis components.	
Low-Resource Machine Translation	
– Implemented Transformer and Seq2Seq+LSTM models for Hajong ↔ Bangla machine translation.	

PUBLICATIONS

1. **Md. Ataulha**, Soumik Paul Jisun, and M. Shahidur Rahman. *End-to-End Variational Speech Synthesis for the Endangered Sylheti Nagri Language*. **Systems and Soft Computing**, Elsevier, 2026, Article 200496. DOI: 10.1016/j.sasc.2026.200496
2. Md Shahidul Islam, Pabel Shahrear, Goutam Saha, **Md Ataulha**, and M. Shahidur Rahman. *Mathematical Analysis and Prediction of Future Outbreak of Dengue on Time-Varying Contact Rates Using a Machine Learning Approach*. **Computers in Biology and Medicine**, Elsevier, 2024. DOI: 10.1016/j.combiomed.2024.108707
3. Jahidul Islam, **Md Ataulha**, and Saiful Azad. *PyBangla at BLP-2025 Task 2: Enhancing Bangla-to-Python Code Generation with Iterative Self-Correction and Multilingual Agents*. IJCNLP-AACL 2025.
4. Md. Naimul Haque, Mostahid Hasan Fahim, M. Reza Selim, Md. Minhajul Haque, Md. Fuad Al Amin, **Md Ataulha**, and M. Shahidur Rahman. *Evaluating and Enhancing Large Language Models for Islamic Question Answering*. ICCIT 2025.
5. **Md Ataulha**, Mushfiquir Rahman, and M. Shahidur Rahman. *PakhiderChobi: A Comprehensive Dataset for Real-Time Detection of Bangladeshi Birds*. ICCIT 2023, IEEE. DOI: 10.1109/ICCIT60459.2023.10441421
6. **Md Ataulha**, Soumik Paul Jisun, Ishrat Jahan, and Mushfiquir Rahman. *BanFish: A Dataset for Classifying Common Bangladeshi Fish Species*. ICEEICT 2024, IEEE. DOI: 10.1109/ICEEICT62016.2024.10534462
7. Md. Shajahan Apurba, Nadira Jahan Ony, Sarwar Hosen, Hasimunnahar Shanta, **Md Ataulha**, and M. Shahidur Rahman. *BHPD-220: A Novel Dataset and EfficientNet-B0 Framework for Comprehensive Historical Place Classification in Bangladesh*. IEEE QPAIN, 2026.
8. Adnan Sami Pavel, Sraboni Akhter, Asha Mony, **Md Ataulha**, and Muhammad Aminur Rahaman. *Structured Prompting and a Heterogeneous LLM Multi-Agent Framework for Financial Sentiment Analysis*. IEEE i-COSTE 2025.
9. Md Faisal Hasan, Mst Rokshanara Toma, **Md Ataulha**, Sharifur Rahman, and M. Shahidur Rahman. *CXR-Next: An Explainable Multi-Class Deep Learning Framework for Thoracic Disease Classification from Chest X-Rays*. IDAA 2025.
10. Md. Muzahidul Islam, **Md Ataulha**, Sharifur Rahman, and M. Shahidur Rahman. *Enhancing Code Synthesis with Bangla Instructions via Fine-Tuned Gemma-3*. IDAA 2025.
11. Md. Hasibul Hasan, Sourav Podder, Syed Abdullah, Saiful Azad, Saurav Chandra Das, and **Md Ataulha**. *D-D3N: Dropout-Regularized Deep Neural Networks for Android Malware Detection*. 4th RAAICON.
12. **Md Ataulha**, Mahedi Hassan Rabby, Mushfiquir Rahman, and Tahsina Bintay Azam. *Bengali Document Layout Analysis with Detectron2*. arXiv preprint, 2023. arXiv:2308.13769

FEATURED PROJECTS

Freshman Utilities — Java, Firebase, Google Directions API

GitHub

- Android app to facilitate campus navigation and info sharing for freshmen.
- Implemented signup, verification, profile management, FAQ, map navigation, and media uploads.

CourseTrackr — Java, Servlet, JSP, MySQL

GitHub

- Web-based course management system with admin, teacher, and student roles.
- Implemented course registration, listing, and management modules.

QuesTek Pro — Java, JavaFX, Text Files

GitHub

- Desktop quiz application with admin verification and CSV result export.

TECHNICAL SKILLS

Languages: Python, C/C++, Java, JavaScript, SQL

Frameworks: PyTorch, TensorFlow, FastAPI, React, Android

Tools: Git, Linux, Azure, Firebase, Pandas, Scikit-learn

Soft Skills: Project Management, Time Management

ACADEMIC LEADERSHIP & SERVICE

- Founder Deputy Moderator, **Green University Competitive Programming Community (GUBCPC)**; served as a **competitive programming mentor and coach for GUB**, mentoring students and teams through regular problem-solving, contest preparation, and competitive-programming training. Under this mentoring and coaching, GUB ranked **2nd among private universities** and **11th in Bangladesh** in the July 2026 programming leaderboard.
- Reviewer for ICCIT 2024, ICCIT 2025, and ICECTE 2026.
- Submitted multiple research-grant proposals as a RA and project member, including proposals to **UGC** and **RTP**.
- Judge, **Hack The AI National Hackathon**.
- Co-organized a co-located conference workshop at **STI 2025**.
- Mentoring 3+ undergraduate teams on TTS, LLM evaluation, and low-resource NMT, and previously mentored teams on regional audio classification and ethnic-language TTS projects.
- Organized the Deep Learning Enigma 1.0 Competition at SUST CSE Carnival 2024.

ACHIEVEMENTS

- Kaggle Notebook Expert (1×). Kaggle Profile
- Top 6% in DL Sprint 3.0, BUET CSE Fest 2024; Top 10% in DL Sprint 2.0, BUET CSE Fest 2023.
- Top 28% in the Bengali.AI Speech Recognition Competition.
- Awarded General Grade Government Scholarship for HSC excellence.
- Participated in ICT Ministry-sponsored training on UE4-based mobile game and app development.

REFERENCES

Dr. Mohammad Shahidur Rahman

Professor, Department of CSE, SUST

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Relation: Thesis Supervisor and Mentor

Dr. Md. Saiful Azad

Professor and Dean, Department of CSE, GUB

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