

FATIMA RAHMAN

SCHOLARSHIP OBJECTIVE

Computer Science graduate (CGPA 3.82/4.0, BUET) specialising in machine learning and natural language processing, applying for the Chinese Government Scholarship (CSC) to pursue an M.Sc. in Artificial Intelligence at Tsinghua University under the supervision of Professor Li Wei (Natural Language Processing Lab). Aim to return to Bangladesh to contribute to AI research capacity building and develop NLP tools for the Bangla language.

EDUCATION

B.Sc. Computer Science & Engineering — Bangladesh University of Engineering & Technology (BUET) 2019 – 2023

CGPA: 3.82/4.0 | Dean's Award for Academic Excellence (2021, 2022, 2023) | Ranked 6th in class of 120

Higher Secondary Certificate (Science) — Viqarunnisa Noon School & College, Dhaka 2017 – 2019

GPA: 5.0/5.0 | Golden A+ | 3rd in Dhaka Board Science Group

RESEARCH & ACADEMIC PROJECTS

Bangla Sentiment Analysis using Transformer Models (Final Year Thesis) 2022 – 2023

- Developed a fine-tuned BERT model for Bangla social media sentiment analysis achieving 91.4% accuracy
- Dataset of 45,000 Bangla tweets created and annotated; model open-sourced on GitHub (380+ stars)
- Thesis submitted for publication in IEEE Access (under review)

Low-Resource NLP Benchmark for South Asian Languages (Research Collaboration — BUET AI Lab) Jan – Jun 2023

- Contributed to building evaluation benchmarks for Bangla, Nepali, and Sinhala NLP models
- Co-authored a paper presented at ACL 2023 Student Research Workshop, Toronto

EXTRACURRICULAR ACTIVITIES & COMMUNITY SERVICE

Founding Member & Technical Lead — Bangladesh Girls in Tech Initiative 2021 – 2023

- Organised 6 coding bootcamps training 240 female secondary school students in Python and web development

Teaching Volunteer — Prothom Alo Bondhu Shova (Literacy Programme) 2020 – 2022

- Taught basic digital literacy to 85 adult learners in Dhaka's Rayer Bazar community over 2 years

Competitive Programmer — ICPC Asia Dhaka Regional — Team BUET_Lambda 2020 – 2022

- Ranked 11th regionally (2022); represented BUET in 3 consecutive ICPC Asia Regional contests

TECHNICAL SKILLS & LANGUAGES

Programming: Python (advanced) | TensorFlow | PyTorch | Hugging Face | Java | C++ | SQL

Languages: Bangla (Native) | English (IELTS 7.5 — scored Aug 2023) | Mandarin Chinese (HSK2)