

Fariha Anjum Shifa

407 Webb Street, Blacksburg, VA 24060, USA

[Google Scholar](#) | [GitHub](#) | [LinkedIn](#) | farihaanjum.shifa@gmail.com

Education

University of Dhaka, Bangladesh

Jun 2023 — Present

M.Sc. in Computer Science & Engineering — GPA(coursework): **3.71**/ 4.00 (thesis result pending)

University of Dhaka, Bangladesh

Jan 2018 — Apr 2023

B.Sc. in Computer Science & Engineering — CGPA: 3.21/4.00 (Last 60-credit GPA: **3.51**)

Coursework: Linear Algebra, Object-Oriented Programming, Operating Systems, Mathematical & Statistical Analysis for Engineers

Research Interests

- Natural Language Processing
- Human Computer Interaction
- Computational Biology

Publications

1. **Shifa, F. A.**, Shochcho, M. I., Arean, A. I. H., Rahman, M. A. U., Mazumder, M. R., Mahhin, A., Fahim, M., Amin, M. A., Ali, A. A., Rahman, A. K. M. M. R. (2025). *SOMAJGYAAN: A Dataset for Evaluating LLMs on Bangla Culture, Social Knowledge, and Low-Resource Language Adaptation*. Findings of IJCNLP-AACL 2025 [[preprint](#)].
2. Sakib, S., Faiak, A., Arean, A. I. H., **Shifa, F. A.** (2025). *NLP-DU at SemEval-2025 Task 11: Analyzing Multi-label Emotion Detection*. SemEval-2025 (ACL), Vienna, pp. 1269–1275.[\[pdf\]](#)
3. **Shifa, F. A.***, Hasnat, S.*, Murshed, S., Ahmed Rumeen, S. T., Mahbub, M. M. (2024). *A Novel Approach to Classifying Plastic-Degrading Enzymes using Convolutional Neural Networks*. Poster accepted, 23rd Science Council of Asia Conference. [[Preprint](#)]
4. **Shifa, F.A.** et al. SimPrompt : Few-Shot Bangla NER with Similarity-Driven Demonstration Retrieval [[preprint](#)][under review]
5. **Shifa, F.A.** et al. MET-BNER: A Dataset for Metonymy Resolution in Bangla Named Entity Recognition. [in preparation]

Research Experience

Data and Design Lab, University of Dhaka

Aug 2024 — Aug 2025

Research Intern, Dhaka, Bangladesh

Undergraduate Thesis

A Risk-Score Model for Dynamics of Infectious Disease Spread

Developed a mobility-informed model to track transmission dynamics and assign relative risk scores to adjacent locations.

Language and Aptitude Tests

TOEFL iBT: **104** (R 25, L 27, S 26, W 26) | GRE: **312** (Q 158, AWA 3.5)

Honors and Awards

Government Honors Scholarship (2023) — based on B.Sc. results

National Girls' Programming Contest: **DU Trois** (27th, 2018), **DU Triumvirate** (2019)

Courses and Workshops

NLP Specialization — [deeplearning.ai](#)

DL Coding & Code Management Workshop — Center for Computational & Data Sciences

Projects

SudoKool — Python, OpenCV | [Code](#) | [Demo](#) 2022
Detected Sudoku grids and digits via camera and overlaid solutions on paper using Augmented Reality.

Perfect Hashing — Java, Android Studio | [Code](#) 2021
Implemented perfect hashing for an English–Bangla dictionary to map keywords to values efficiently.

Esho Shikhi Bornomala — Android (Java) | [Code](#) | [Demo](#) 2019
Interactive app to help children learn Bangla alphabets.

Online Voting System — Java, JavaFX 2019
Socket-based registration and voting platform for candidates and voters.

Up and Up — C++, iGraphics | [Code](#) | [Demo](#) 2018
Desktop “rapid roll” style game; C++ backend with iGraphics UI.

Technical Skills

Language: Python, C, C++, Java

ML/DS Libraries: PyTorch, scikit-learn, Pandas, NumPy, Matplotlib, Seaborn, Plotly

Tools/Platforms: Git, LaTeX, Android Studio, MySQL, Flask

Extracurricular

Code Samurai Hackathon (2019) — Volunteer, University of Dhaka