

# Fariha Anjum Shifa

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## Education

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### 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

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- Natural Language Processing
- Human Computer Interaction
- Computational Biology

## Publications

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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 Rumee, 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

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### Data and Design Lab, University of Dhaka

Aug 2024 – Aug 2025

Research Intern, Dhaka, Bangladesh

## Undergraduate Thesis

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### 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

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

## Honors and Awards

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

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

## Courses and Workshops

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NLP Specialization — [deeplearning.ai](#)

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

## Projects

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**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

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**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

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