

Fariha Anjum Shifa

[Webpage](#) [Email](#) [LinkedIn](#) [GitHub](#) [+880-1715855781](#)

EDUCATION

University of Dhaka, Bangladesh 06/23 - Present
M.Sc. in Computer Science and Engineering (Current GPA **3.71** / 4.0)

University of Dhaka, Bangladesh 01/18 - 04/23
B.Sc. in Computer Science and Engineering (CGPA: 3.21 / 4.0) (Last 60-credit GPA : **3.51**)
Coursework: Linear Algebra, Object Oriented Programming, Operating Systems, Mathematical and Statistical Analysis for Engineers

EXPERIENCE

Research Assistant 08/24 - present
[Data and Design Lab](#)

PUBLICATIONS

A Novel Approach to Classifying Plastic Degrading Enzymes using Convolutional Neural Networks ([Accepted for poster presentation at 23rd Science Council of Asia Conference](#))
*Fariha Anjum Shifa**, *Soharth Hasnat**, *Shabab Murshed*, *Sarker Tanveer Ahmed Rume*, *MST Murshida Mahbub*

RESEARCH INTEREST

- Natural language processing
- Machine learning
- Computational Biology

RESEARCH EXPERIENCE

Undergraduate thesis 01/22 - 01/23

- **Title:** A Risk-score based model for Dynamics of Infectious Disease Spread
- **Synopsis:** Based on human mobility data, this dissertation developed a model for tracking the transmission of an infectious illness throughout an area. It assigns a relative score to adjacent locations of an infected zone to determine the infectiousness of that location.

Master's thesis 08/24 -present

- **Title:** A study of the performance of Large Language Models on Bangla figurative language summarization
- **Synopsis:** Summarization of Bangla figurative language using transformer models.

Natural Language Processing ([Ongoing](#)) 07/24 - Present

- **Title:**Enhancing Bangla NER with Contextual and Semantic Features Understanding
An ongoing work under data and design lab.
- **Title:** Hate Speech Detection in Bangla Code-mixed Text in social media
Investigation of sentiment in Bangla code mixed text.

LANGUAGE AND APTITUDE TEST

- **TOEFL iBT:** 103 (Reading - 26, Listening - 24, Speaking - 25, Writing - 28)
- **GRE:** 312 (Quant-158, Verbal-154, AWA-3.5)

PROJECTS

- SudoKool** | Python, Opencv | [Git](#) | [Demo](#) 2022
- A Python project that utilizes a camera to detect the edges and numbers of a printed Sudoku game on paper, then displays the results on the same paper using Augmented Reality (AR)
- Perfect Hashing** | Java, Android Studio [Git](#) 2021
- An English to Bangla dictionary. Here, a perfect hashing algorithm was implemented to map the keywords to values in the dictionary.
- Esho Shikhi Bornomala** (Let's learn Bangla Alphabets) | Android Studio, Java | [Git](#) | [Demo](#) 2019
- An Android app designed to educate children engagingly, helping them learn Bangla alphabets.
- Online Voting System** | Java, JavaFX 2019
- An internet-based voting platform allowing candidates and voters to register and participate in the voting process. I employed Java socket programming to develop this system.
- Up and Up** | C++, iGraphics Library | [Git](#) | [Demo](#) 2018
- Up and Up is a desktop game resembling the rapid roll. It was developed with C++ as its backend programming language, and iGraphics library was employed for the UI

TECHNICAL SKILLS

Programming Languages: Python, C, C++, Java

Libraries: Pandas, Numpy, Scikit-learn, Seaborn, Matplotlib, Tensorflow

Database : MySQL

Web Frameworks: Flask

Drawing & Typesetting : Office, Latex, Beamer

Languages: English, Bangla

HONORS AND AWARDS

- National Girls' Programming Contest 2018
Team name: DU Trois (**27th**)
- National Girls' Programming Contest 2019
Team name: DU Triumvirate (**participant**)
- Government Honors Scholarship 2023
Based on **B.Sc.** result of examination of 2021

COURSES AND WORKSHOPS

Natural Language Processing Specialization by [deeplearning.ai](#)

DL coding and code management workshop at [Center for Computational and Data Sciences](#)

INTERPERSONAL SKILLS

Problem-Solving, Time Management, Project Management, Leadership, Team Work, Teaching, Decision Making, Networking.

EXTRACURRICULAR ACTIVITIES

- Code Samurai Hackathon 2019
Volunteer University of Dhaka
- HSBC - Prothom Alo Language Competition (Regional round) 2017
2nd runner up Chattogram