

Israt Jahan Ayshi

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Dhaka, Bangladesh

SUMMARY

Computer Science graduate with experience in full-stack web development and academic research. Proficient in JavaScript, React, Next.js, HTML, CSS, with practical exposure to building dynamic web applications. Experienced in collaborative team environment through academic projects and research publications. Adept at translating technical requirements into functional solutions, with a secondary background in machine learning and geospatial data analysis. Seeking a software engineering or web development role where I can contribute across the stack and grow within a structured engineering team.

EDUCATION

BRAC University

Bachelor of Science in Computer Science and Engineering

CGPA: 3.92 / 4.00

Awarded VC's list & Dean's list

Dhaka, Bangladesh

January 2020 – January 2025

Viqarunnisa Noon School and College

HSC - Higher School Certificate

GPA: 4.83 / 5.00

Dhaka, Bangladesh

2017 - 2019

Viqarunnisa Noon School and College

SSC - Secondary School Certificate

GPA: 5.00 / 5.00

Dhaka, Bangladesh

2017

EXPERIENCE

Undergraduate Teaching Assistant/ CSE Student Tutor

BRAC University

June 2024 – January 2025

Dhaka, Bangladesh

- Served as CSE110 (Programming Language I) Student Tutor(ST) for 2 semesters
- Assisted students in developing effective study strategies and provided constructive feedbacks
- Provided 15 working hours per week of offline and online consultations
- Assisted lab faculties in conducting lab classes
- Checked and graded lab assignments and quiz scripts

SKILLS

- **Programming Languages:** Python, JavaScript, Java, C
- **Web Development & Technologies:** HTML5, CSS3, Tailwind CSS, Next.js, React, Figma, MongoDB, PHP, Laravel
- **Data Science & Machine Learning :** Tensorflow, Keras, Scikit-learn, Pandas, NumPy, Matplotlib, QGIS
- **Platforms and Tools:** Git, GitHub, VS Code, Jupyter Notebook, Google Colab, Linux
- **Research & Analytical Skills:** Image Processing, Data Analysis, LaTeX, Critical Thinking, Problem Solving, Accuracy Assessment, Team Collaboration, Adaptability

RESEARCH WORK

C=Conference, T=Thesis

[C.1] ForCM: Forest Cover Mapping from Multispectral Sentinel-2 Image by Integrating Deep Learning with Object-Based Image Analysis []

The 22nd Australasian Data Science and Machine Learning Conference (AusDM'24), Australia, 2024

Maisha Haque, **Israt Jahan Ayshi**, Sadaf M. Anis, Nahian Tasnim, Mithila Moontaha, Md. Sabbir Ahmed, Muhammad Iqbal Hossain

- [C.2] **Comparative Analysis of Deep Learning and OBIA on Satellite Images for Forest Cover Monitoring** [🔗]
27th IEEE International Conference on Computer and Information Technology (ICCIT), Bangladesh, 2024
 Maisha Haque, **Israt Jahan Ayshi**, Sadaf M. Anis, Nahian Tasnim, Mithila Moontaha, Md. Sabbir Ahmed, Muhammad Iqbal Hossain
- [T.1] **Forest Cover Mapping from Multi Spectral Sentinel-2 Image by Integrating Deep Learning with Object-Based Image Analysis**
Domain: Remote sensing, Environment monitoring
Fields: Geospatial Analysis, Deep Learning, Image Processing, OBIA (Object-Based Image Analysis)
September 2022 – December 2023
Supervisor: Dr. Muhammad Iqbal Hossain *Associate Professor, BRAC University* [in]
Co-supervisor: Md. Sabbir Ahmed *Lecturer, BRAC University* [in]

PROJECTS

ABASHON: Real Estate Management Website | *Laravel, Blade, PHP* [🔗] February 2024 – April 2024

- * **Brief Description:** Fully dynamic website for property buying, selling, and rental processes. Implemented MVC design pattern to develop a desktop and mobile-friendly UI with personalized dashboards and features like property searches, detailed listings, and Google Maps integration etc.
- * **Individual Contribution:** Frontend and Backend (introduced features like search, listing, auth, database handling, multiple dashboards, UI design)

Student Management Website | *HTML5, CSS, PHP, JavaScript, Bootstrap, MySQL* [🔗] August 2023

- * **Brief Description:** Small-scale database management system with homepage UI, login/logout, dashboards for multiple end users and features like managing users, notice board, complaints & more.
- * **Individual Contribution:** Worked on both frontend and backend

DX Ball | *OpenGL* [🔗] June 2023

- * **Individual Contribution:** Handled ball and paddle movement, collision detection with bricks, score tracking

EXTRACURRICULAR

- General Member, Creative Department, Robotics Club of BRAC University (**ROBU**) *2020 – 2021*
- General Member, Event Department, Art and Photography Society-BRAC University (**BUAPS**) *2020 – 2021*
- Sub-Executive, Event Organization, Viqarunnisa Noon Science Club and Viqarunnisa Noon Earth Club *2017 – 2018*