

Mir Sazzat Hossain

RESEARCH ASSISTANT - CENTER FOR COMPUTATIONAL & DATA SCIENCES

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Personal Profile

I am a skilled computer science professional with experience in programming languages such as Python and expertise in tools such as PyTorch, NumPy, MatLab, LaTeX, and Git/GitHub. I have a proven track record of using these tools to develop, test, and deploy complex software systems and data analysis applications. I am also skilled in working with large datasets and solving challenging mathematical and computational problems. Additionally, I have excellent problem-solving and critical thinking skills, which allow me to analyze complex systems and find effective solutions. I am a self-motivated individual with strong time management skills and the ability to prioritize tasks to meet tight deadlines. I am also a team player, who values collaboration and works effectively with others to achieve shared goals. Lastly, I have a passion for teaching and enjoy sharing my knowledge and expertise with others.

Work Experience

Center for Computational & Data Sciences, IUB

Dhaka, Bangladesh

Research Assistant

Feb 2022 - Present

- Contributed to a variety of research projects in the fields of data science, machine learning, computer vision, natural language processing, and deep learning.
- Conducted research, developed innovative ideas, applied advanced algorithms, and published research papers in prestigious journals and conferences.
- Guided undergraduate students by teaching, mentoring, instructing the numerical method lab course, and leading tutorial sessions for the Introduction to Programming with Python (CSE101) course at IUB.
- Technical Skills:** Artificial Intelligence (AI), Machine Learning, Artificial Neural Networks, Python (Programming Language)
- Soft Skills:** Time Management, Project Management, Problem Solving, Logical Thinking.

Independent University, Bangladesh

Dhaka, Bangladesh

Teaching Assistant

Sep 2021 - Jan 2022

- Taught and graded assignments, led tutorial sessions, and provided feedback and support to students.
- Redesigned lab materials for CSC317 - Numerical Methods course to be compatible with Python.
- Provided support and assistance to students during lab sessions and helped them understand the concepts of numerical approaches in Python.
- Technical Skills:** Python, NumPy, Matplotlib, Pandas, Scikit-learn, Git.
- Soft Skills:** Teamwork, Time Management, Communication, Presentation skills.

Independent University, Bangladesh

Dhaka, Bangladesh

Teaching Assistant

Oct 2019 - Dec 2019

- Worked as a Tutor at the Math Tutorial Center, Physical Sciences Department, IUB.
- Assisted struggling students who visited the center for extra help in mathematics.
- Managed the Math Tutorial Center to ensure students received the support they needed and addressed their difficulties with math concepts. Open to students from various disciplines.
- Soft Skills:** Teamwork, Time Management, Communication.

Education

Independent University, Bangladesh

Dhaka, Bangladesh

Bachelor of Science - BSc in Computer Science and Engineering

Jan 2017 - Jul 2021

- Pursued and completed a Bachelor's degree in Computer Science and Engineering from Independent University, Bangladesh (IUB) with a CGPA of 3.64.
- Acquired in-depth knowledge of computer programming, algorithms, data structures, databases, and computer networks.
- Developed strong problem-solving and critical thinking skills through hands-on projects and coursework in computer science.

Publications

M.S. Hossain, S. Roy, K.M.B. Asad, A. Momen, A.A. Ali, M.A. Amin and A.K.M.M. Rahman (2023). "Morphological Classification of Radio Galaxies Using Semi-Supervised Group Equivariant CNNs". Accepted in INNS Deep Learning Innovations and Applications (INNS DLIA 2023) workshop.

Extracurricular Activities

Winner of Intra IUB Tech Fest Programming Contest - Summer 2019

Demonstrated my coding skills and won the programming contest held within my university.

Winner of 2019 Intra IUB ACM Week Code Debugging Contest

Proven my ability to debug code and solve complex coding problems, and won the contest held during ACM Week.

Represented IUB in International Collegiate Programming Contest (ICPC) Asia Dhaka Regional competition

Represented my university in a prestigious international programming competition and demonstrated my skills on a global stage.

Actively involved in hackathons, programming challenges, and olympiads

Participated in various coding and technology-related events, showcasing my passion and commitment to the field of computer science and technology.

Achievements

Spring 2021	Vice Chancellor's List , for attaining a GPA of 3.50 or above for three consecutive semesters.	IUB
Autumn 2020	Vice Chancellor's List , for attaining a GPA of 3.50 or above for three consecutive semesters.	IUB
Summer 2020	Vice Chancellor's List , for attaining a GPA of 3.50 or above for three consecutive semesters.	IUB
Spring 2020	Dean's Merit List , for attaining a CGPA of 3.50 or more in the second successive semester.	IUB
Autumn 2019	Dean's List , for attaining a CGPA of 3.50 or more in any semester.	IUB

Skills

Technical

- Proficient in Python, PyTorch, NumPy, MatLab, LaTeX, and Git & GitHub.
- Skilled in using these tools to develop, test, and deploy complex software systems and data analysis applications.
- Experienced in working with large datasets and solving challenging mathematical and computational problems.

Personal

- Strong problem-solving skills, able to analyze and understand complex systems, and identify and resolve issues efficiently.
- Excellent critical thinking skills, able to approach problems from multiple angles, consider all possible solutions, and choose the most effective one.
- Self-motivated, able to take the initiative, prioritize tasks, and manage time effectively to meet tight deadlines.
- Excellent team player, able to collaborate effectively with others and contribute to the success of the team.

Interests

Linux	Passionate about testing different distributions, currently using Arch Linux and Manjaro.
Technical Writing	Enthusiastic about writing descriptive blogs about AI and ML topics, regularly publishes works on personal website.
Music	Has a strong love for music, regularly listens to various genres for leisure and enjoyment.

Languages

English	Professional proficiency
Bengali	Native proficiency

References

Dr. Amin Ahsan Ali, PhD — Associate Professor

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Dr. A K M Mahbubur Rahman, PhD — Associate Professor

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