Hadiur Rahman Nabil

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LinkedIn | GitHub | ResearchGate | Portfolio

Education

American International University-Bangladesh Dhaka, Bangladesh
Bachelor of Science Computer Science & Engineering Jan 2020 - Apr 2024
GPA: 3.22/4.00
Research Group: AMIR Lab; **Advisor:** Dr. M. F. Mridha

Relevant Courses: Algorithms & Data Structures, Research Methodology, Data Science, Data Warehousing & Data Mining, Artificial Intelligence, Computer Vision & Pattern Recognition.

Publications

Journal Articles

1. Atif Ahmed Showrov, Md Tarek Aziz, **Hadiur Rahman Nabil**, Jamin Rahman Jim, Md Mohsin Kabir, M. F. Mridha, Nobuyoshi Asai, & Jungpil Shin. (2024). Generative adversarial networks (GANs) in medical imaging: Advancements, applications, and challenges. *IEEE Access*. **DOI:** 10.1109/ACCESS.2024.3370848.
2. Hashibul Ahsan Shoaib, Md Anisur Rahman, **Hadiur Rahman Nabil**, Md Mohsin Kabir, M. F. Mridha, Jie Huang, & Jungpil Shin. (2024). Advancements in deep learning architectures for aerial imagery. *IEEE Open Journal of the Computer Society*. (Under Review).
3. **Hadiur Rahman Nabil**, Rufaida Mamun, Thajib Nasir, Khan Nushrat Sultana Netu, Abhijit Bhowmik, & Debajyoti Karmaker. (2024). Harnessing deep learning for plant disease analysis: Current trends, challenges, and future prospects. *Heliyon*. **DOI:** 10.2139/SSRN.4973274. (Under Review).
4. **Hadiur Rahman Nabil**, Shalim Sadman Dipro, Maysara Nur, & Rufaida Mamun. (2024). Generative AI-based sentiment analysis. *(Ongoing)*.

Conference Papers

1. Aritra Das, **Hadiur Rahman Nabil**, Fahad Pathan, Momotaz Rahman Ouishy, M. F. Mridha, & Jungpil Shin. (2024). Explainable AI-driven vision transformers for assessing fruit freshness via transfer learning. In *Proceedings of the IEEE Conference* (Under Review).
2. Shahriar Siddique Ayon, Sharia Arfin Tanim, **Hadiur Rahman Nabil**, Maruful Islam, Tonmoy Mohajan, & Kamruddin Nur. (2024). Insights into zooplankton abundance dynamics in tropical temporary ponds using machine learning and explainable AI. In *Proceedings of the International Conference on Innovations in Science, Engineering, and Technology* (Accepted).
3. **Hadiur Rahman Nabil**, Istyak Ahmed, Md Abu Talha, & Aritra Das. (2024). Gallbladder disease classification integrating attention mechanism. *(Ongoing)*.

Book Chapter

1. **Hadiur Rahman Nabil**, Md Golam Rabbani Abir, Mst Moushumi Khatun, Md Eshmam Rayed, & Md Abdul Hamid. (2024). Banana leaf spot disease detection using deep learning-based algorithms. In *Machine Vision in Plant Leaf Disease Detection for Sustainable Agriculture* (Accepted).

Experience

Advanced Machine Intelligence Research Lab (AMIR Lab) Dhaka, Bangladesh

- **Research Assistant** Jan 2024 - Present

  - Helping research intern students with the basics of research methodologies, writing scientific papers, and familiarizing them with the research environment and proposals.

- **Research Intern** Aug 2023 - Dec 2023

  - Continuously conducting literature reviews to stay updated on current research trends.

Talent Care Education (TCE) Dhaka, Bangladesh

- **Academic Consultant** Jan 2021 - Dec 2023

  - Assisting students in understanding their assignments and guiding them on how to implement solutions effectively.

Technical Skills

Programming Languages:	C++, Java, Python, C#, R, PHP, HTML, CSS
Libraries/Frameworks:	ASP.Net, Tensorflow, Pytorch
Tools / Platforms:	GitHub, Git, Latex, MatLab, UML, Figma, Postman, Visual Studio
Databases:	MySQL

Projects / Open-Source

- **Train Station Management System | Github**
  Language: PHP, Hack, CSS, JavaScript
- **Rice Leaf Spot Disease Detection using You Only Look Once (YOLO) | Github**
  Language: Jupyter Notebook
- **Cardiovascular Disease Risk Prediction | Github**
  Language: R
- **Travel Management System | Github**
  Language/Framework: C#, ASP.Net
- **Clustering Analysis and Evaluation of Heart Stroke Data Using K-Means & Hierarchical Clustering | Github**
  Language: Python

Co-curricular Experiences

Competitive Programming

- Solved over 500 problems on platforms like Codeforces, Codechef, Atcoder, and HackerRank, and participated in 60 online coding contests.

Security Analysis

- Engaged in identifying web application vulnerabilities on platforms like HackerOne and Bugcrowd.

Achievements & Awards

- Received a research grant from the **Competitive Research Fund of The University of Aizu, Japan**
- Obtained 17th place in **Intra AIUB Programming Contest Fall 21-22**

Voluntary Activities & Services

- Organized seminars ***Mastering Methodology and Results Analysis in Research Papers.***
- Served as a co-host for the event ***Unlocking the Secrets of Successful Research***.

Certifications

- Introduction to Cybersecurity - **Cisco**
- IT Essentials: PC Hardware and Software - **Cisco**

Languages

- Bangla (Native)
- English (Fluent)

References

Dr. Muhammad Firoz Mridha
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American International University-Bangladesh
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Dr. Debajyoti Karmaker
Associate Professor, Computer Science
American International University-Bangladesh
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