Md. Ehsanul Haque

Undergraduate Student of Computer Science and Engineering

Enthusiastic CSE student, mainly focused on Data Science. Loves to explore and learn new things, especially in research areas like machine learning, cybersecurity, medical imaging, and deep learning. Always looking forward to skill development and learning, exploring new possibilities.

+8801521574515   ehsanulhaquesohan758@gmail.com   https://github.com/SohanSakib8   https://linkedin.com/sohan

Academic History

Department of Computer Science and Engineering, East West University   *Dhaka, Bangladesh*

Bachelor of Science in Computer Science and Engineering   2021-2026

- **CGPA:** 3.44/4.00 (Till Fall 2024)

Higher Secondary Certificate (HSC), Lalmonirhat Government College   *Lalmonirhat, Bangladesh*

Division of Science   2020

- **GPA:** 5.00/5.00

Secondary School Certificate (SSC), Government Aditmari GS Model School and College   *Lalmonirhat, Bangladesh*

Division of Science   2018

- **GPA:** 5.00/5.00

Research Interest

Machine Learning in Cybersecurity   Machine Learning   Image Processing   Health Informatics

Experiences

Research Assistant: Multimedia Signal &Image Processing research group, South Korea.

https://sites.google.com/view/drjiauddin/research-areas?authuser=2

Publications

Google Scholar   **ORCiD**

Journal:

- **Haque, M.E.**; Zabin, M.; Uddin, J. EnsembleXAI-Motor: A Lightweight Framework for Fault Classification in Electric Vehicle Drive Motors Using Feature Selection, Ensemble Learning, and Explainable AI. Machines 2025, 13, 314. https://doi.org/10.3390/machines13040314

- **Conference Proceedings:**
- **Credit Card Fraud Detection: Optimizing Performance with Supervised and Ensemble Learning: Ehsanul Haque,** Md Al-Imran, Ahmed Wasif Reza, 27th International Conference on Computer and Information Technology (ICCIT) Cox's Bazar, Bangladesh, 20-22 December 2024 DOI: doi.org/xxxx **(to be published at IEEE Xplore)**
- **A Comprehensive Approach to Ransomware Detection Utilizing Diverse Machine Learning Models and Balancing Techniques: Md. Ehsanul Haque**, Amran Hossain, Akash Barua, Jeba Maliha, Ahsan Habib Siam, Md. Shafiqul Alam ,3rd International Conference on Innovations in Data Analytics (ICIDA), Kolkata, India, 19th December 2024, DOI: doi.org/xxxx **(to be published at Springer)**
- **Optimizing DDoS Detection in SDNs Through Machine Learning Models: Md. Ehsanul Haque**, Jeba Maliha, Md. Shafiqul Alam, Ahsan Habib Siam, Sayed Md Fazle Rabbi, Md. Muntasir Rahman ,16th IEEE International Conference on Computational Intelligence and Communication Networks (CICN), 22–23 December 2024, Indore, India, DOI: https://doi.org/10.1109/CICN63059.2024.10847458
- **Improving Chronic Kidney Disease Detection Efficiency: Fine-Tuned CatBoost and Nature-Inspired Algorithms with Explainable AI: Md. Ehsanul Haque,** S. M. Jahidul Islam, Jeba Maliha, Md. Shakhauat Hossan Sumon, Rumana Sharmin, Sakib Rokoni,14th IEEE International Conference on Communication Systems and Network Technologies (CSNT 2025), 7–8 March 2025, Bhopal, India, https://arxiv.org/abs/2504.04262
- **Enhancing IoT Cyber Attack Detection in the Presence of Highly Imbalanced Data**: **Md. Ehsanul Haque**, Md. Saymon Hosen Polash, Md. Al-Imran, Sanjida Simla, Md. Alomgir Hossain, Sarwar Jahan, 14th IEEE International Conference on Communication Systems and Network Technologies (CSNT 2025), 7–8 March 2025, Bhopal, India, **(Accepted)**

Dataset:

- **Bangla News Article Sentiment Analysis Dataset: Ehsanul Haque**, Mendeley Data, V1, Published: August 21, 2024. DOI: 10.17632/93m3f8h6dz.1.

Academic Contributions

Technical Program Committee Member

- **Role:** Reviewer
1. 16th International Conference on Computer and Information Networks (CICN) 2024, Oriental University, Indore, India.
2. 14th International Conference on Communication Systems and Network Technologies 2025 (CSNT), VIT Bhopal, India
3. IEE International Conference on Power, Control, and Communication (MPCON) 2025, IEE Madhya Pradesh Section, India.

Acknowledgements

Project

- ✓ Java-based Hospital Management System
- ✓ Sports Mini Website
- ✓ Emergency Response Website
- ✓ HTML, CSS, PHP-based Hospital Management System

Technical Skills

- Programming Languages: C, C++, Java, Python
- Machine Learning and Data Analysis: PyTorch, Pandas, SciPy, Scikit-learn
- Python Framework: Flask

- Writing tools: Latex.
- Software and Code Maintenance: GitHub
- Web Development Languages: HTML5, CSS, JavaScript, PHP
- Operating Systems: Windows, Ubuntu
- Database Management: MySQL, Oracle SQL
- Typing Proficiency: English: 35 WPM, Bangla: 25 WPM

Extracurricular Activities

- General Member, EWU Computer Programming *Club*   *2021-2023*
- General Member, EWU Pathcokro (Literature-based Club)   2021-2022

Reference

Md Al-Imran

Senior Lecturer
Department of Computer Science & Engineering

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