





Md. Ehsanul Haque

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Academic History

Department of Computer Science and Engineering, East West University	<i>Dhaka, Bangladesh</i>
Bachelor of Science in Computer Science and Engineering	2021-2026
▪ CGPA: 3.53/4.00 (Till Spring 2025, 115 Credit)	
Higher Secondary Certificate (HSC), Lalmonirhat Government College	<i>Lalmonirhat, Bangladesh</i>
Division of Science	2020
▪ GPA: 5.00/5.00	
Secondary School Certificate (SSC), Government Aditmari GS Model School and College	<i>Lalmonirhat, Bangladesh</i>
Division of Science	2018
▪ GPA: 5.00/5.00	

Research Interest

 Machine Learning in Cybersecurity  Machine Learning  Image Processing  Health Informatics

Experiences

- Research Assistant: Supervisor- Md Al-Imran (Senior Lecturer, Dept of CSE, East West University.**
- Research Assistant (Remote): Multimedia Signal & Image Processing research group, South Korea.**
Supervisor: Dr Jia Uddin, Associate Professor, Woosong University,

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>
- **Journal Submission Under Review:**

- A Novel Interpretable and Real-Time Dengue Prediction Framework Using Clinical Blood Parameters with Genetic and GAN-Based Optimization: **Md. Ehsanul Haque**, Md. Nurul Absar, Fahmid Al Farid, Jia Uddin, Hezerul Abdul Karim (*Under review at Frontiers in Artificial Intelligence*)
- BearFusionNet: A Multi-Stream Attention-Based Deep Learning Framework with Explainable AI for Accurate Detection of Bearing Casting Defects: **Md. Ehsanul Haque**, Md. Nurul Absar, Md Kamrul Siam Jia Uddin (*Under review Journal of King Saud University – Engineering Sciences*)
- A Blockchain-based Hybrid Framework for Secure and Scalable Electronic Health Record Management in In-Patient Follow-up Tracking: Ahsan Habib Siam, **Md. Ehsanul Haque**, Fahmid Al Farid, Anindita Sutradhar, Jia Uddin, Sarina Mansor (**Under Review at Computer Continua & Material**)
- NeuroFuseNet: Advanced Multi-Head Self-Attention Fusion in a Hybrid CNN Model for Brain Tumor Diagnosis :Md. Ehsanul Haque, Pegah Khosaravi (**Under review at Frontiers in AI**)
- LeafSightX: Multi-Head Attention-Driven DenseNet201 and InceptionV3 Feature Fusion for Enhanced Accuracy and Transparent Apple Leaf Disease Detection: **Md. Ehsanul Haque**, Fahmid Al Farid, Md. Nurul Absar, Md Kamrul Siam, Jia Uddin, Hezarul Abdul Karim (**Under Review at IEEE Open computer society journal**)

- **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: <https://ieeexplore.ieee.org/document/11022380/>
- **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://ieeexplore.ieee.org/document/10968421>
- **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, <https://ieeexplore.ieee.org/document/10968583>
- **An Optimized Support Vector-Based Hybrid Framework for Real-Time Maternal Risk Prediction:** GA-Driven Feature Selection and XAI, **Md. Ehsanul Haque**, Md Al-Imran, Syoda Anamika Jahan, Abrar Fahim, Ahmed Wasif Reza ; THE 16th INTERNATIONAL IEEE CONFERENCE ON COMPUTING, COMMUNICATION AND NETWORKING TECHNOLOGIES (ICCCNT) IIT - Indore, Madhya Pradesh, India. (**Accepted**)
- **StackLiverNet: A Novel Stacked Ensemble Model for Accurate and Interpretable Liver Disease Detection :** (Md. Ehsanul Haque, S. M. Jahidul Islam , Shakil Mia, Rumana Sharmin , Ashikuzzaman, Md Samir Morshed THE 16th INTERNATIONAL IEEE CONFERENCE ON COMPUTING, COMMUNICATION AND NETWORKING TECHNOLOGIES (ICCCNT) IIT - Indore, Madhya Pradesh, India. (**Accepted**)

Dataset:

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

- **AgriLeafNet: Fruit Tree Leaf Dataset for Agricultural Research**, , Mendeley Data , Published : V1, doi: 10.17632/fkkfx4vdm3.1

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

East West University District Scholarship

2021-2025

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

Reference

Md Al- Imran

Senior Lecturer

Department of Computer Science and Engineering

East West University, Dhaka 1212, Bangladesh.

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