

## Md Biplob Hosen

Graduate Student, Department of Information Systems, University of Maryland Baltimore County

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### ACADEMIC BACKGROUND:

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- **PhD in Information Systems:** 2024-continue, UMBC.
- **M.S. in Information Technology:** 2016-2017 (Thesis Group), JU, BD; Result: 3.82 on a scale 4.00 (in CGPA).
- **B.Sc. (Hons.) in Information Technology:** 2013-2016, JU, BD; Result: 3.81 on a scale of 4.00 (in CGPA).

### TEACHING EXPERIENCE:

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- **Graduate Assistant,** IS, UMBC [August 2024 - Continue].
- **Assistant Professor,** IIT, JU, Savar, Dhaka, BD [November 2023 - Continue].
- **Lecturer,** IIT, JU, Savar, Dhaka, BD [February 2021 – November 2023].
- **Adjunct Faculty,** CSE, Sonargoan University, BD [January 2020 – December 2020].
- **Adjunct Faculty,** ICT, Bangladesh University of Professionals [January 2019 – December 2019].
- **Lecturer,** CSE, Stamford University Bangladesh [September 2018 – February 2020].
- **Lecturer,** CSE, Daffodil International University, BD [May 2017 – December 2017].

### AWARDED RESEARCH FUNDING:

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- **JU Research Grant of 2023-2024:** A Machine Learning Assisted Web Based Student Performance Monitoring System.
- **JU Research Grant of 2022-2023:** Privacy Leakage Identification and Risk Assessment for Android Applications.
- **JU Research Grant of 2021-2022:** Evaluating the Impact of Telecommunication Service Quality in Bangladesh on Online Education during Covid-19.

### RESEARCH PUBLICATIONS:

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- Md Biplob Hosen et al., Modeling Socially Constructed Knowledge using Multimodal Machine Learning: A Case Study in K-12 AI Literacy Education Classroom, 26th International Conference on Artificial Intelligence in Education, Italy, 2025 (Accepted).
- Md Biplob Hosen et al., From Code to Career: Assessing Competitive Programmers for Industry Placement, 2025 IEEE International Conference on Quantum Photonics, Artificial Intelligence, and Networking (QPAIN). (Accepted).
- Masud, A., Hosen, M.B., Habibullah, M., Anannya, M. and Kaiser, M.S., 2025. Image captioning in Bengali language using visual attention. PloS one, 20(2), p.e0309364.,
- Shahid, S.B., Yousuf, M.A., Hosen, M.B., Ahmed, S. and Ali Moni, M., 2024, October. Bias in Deep Learning Skin Cancer Detection: Parallel Residual Convolution Network Classification and Racial Bias Quantification: Skin Cancer Racial Bias. In Proceedings of the 3rd International Conference on Computing Advancements (pp. 993-1000).
- Hosen, M.B., Ahmed, S., Akter, B. and Anannya, M., 2024, December. Impact, Causation and Prediction of Socio-Academic and Economic Factors in Exam-centric Student Evaluation Measures using Machine Learning and Causal Analysis. In 2024 13th International Conference on Electrical and Computer Engineering (ICECE) (pp. 321-326). IEEE.
- Saha, Tapash Kumar, Md. Fazlul Karim Patwary, Faria Ahmed, Md. Biplob Hosen, and Rashed Mazumder. 2024. "Effects of Movement Restrictions on Consumer Consumption". Journal of Applied Engineering and Technological Science (JAETS) 6 (1):416-28.
- Anannya, M., Most, S.K., Hosen, M.B., Ahmed, S., Hossain, F. and Kaiser, M.S., 2023. Eligible Personal Loan Applicant Selection using Federated Machine Learning Algorithm. International Journal of Advanced Computer Science and Applications, 14(8).
- Hosen, M.B., Farin, N.J., Anannya, M., Islam, K. and Uddin, M.S., 2022, May. Quality analysis of pathao ride-sharing service in bangladesh. In Proceedings of International Joint Conference on Advances in Computational Intelligence: IJCACI 2021 (pp. 597-611). Singapore: Springer Nature Singapore.,
- Hosen, M.B., 2022. Impact of Telecommunication Service Quality in Bangladesh on Online Education during Covid-19. International Journal of Modern Education and Computer Science, 11(6), p.65.,
- Md. Biplob Hosen , Ashfaq Ali Shafin and Mohammad Abu Yousuf, Performance Analysis of Machine Learning Techniques in Network Intrusion Detection, Journal of Information Technology (JUJIT), 11, 2022.
- M. B. Hosen, M. M. H. Mridha and M. A. Hamza, "Secondary User Channel Selection in Cognitive Radio Network Using Adaptive Method," 2018 3rd International Conference for Convergence in Technology (I2CT), Pune, India, 2018, pp. 1-6, doi: 10.1109/I2CT.2018.8529521.,

### REVIEWER:

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- 6<sup>th</sup> International Joint Conference on Advances in Computational Intelligence (IJCACI 2022).
- IEEE World Conference on Applied Intelligence and Computing (AIC 2022).

## **SKILLS HIGHLIGHT:**

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- **Document Preparation System:** LaTeX.
- **Programming Language:** Python, Java, PHP, JavaScript, C and C++.
- **Language:** IELTS-7.0 (Listening: 8.0, Reading: 7.0, Writing: 6.5, Speaking:7.0).

## **SCHOLARSHIPS & AWARDS:**

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- National Science & Technology (N.S.T.) Fellowship (2018) for M.S. Research, BD.
- Regular Merit-Based Annual Scholarships (2013-2016) from JU.
- Education Board Scholarship, for Higher Secondary (HSC) Result.
- Education Board Scholarship, for Secondary (SSC) Result.

## **TRAINING:**

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- **Teacher's Induction Program** on Tools for Quality Improvement. Organized by the Institutional Quality Assurance Cell (IQAC) of Jahangirnagar University.
- **Faculty Training Program** Organized by the IQAC of Stamford University Bangladesh.
- **Training on Advanced Mobile Game Development** Organized by the Information and Communication Technology Division.
- **Foundation of Software Testing & Automation** Organized by the Institute of Information Technology, Jahangirnagar University.
- **Web Application Development (PHP)** Certified by Basis Institute of Training and Management.

## **SUPERVISION:**

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- M.S. (2022-2023): Faria Ahmed (Project Title: Building a Recommendation System through Advanced Customer Segmentation).
- M.S. (2021-2022): Md. Uthba Bin Anowar Binoy (Project Title: A Machine Learning Assisted Web Based Student Performance Monitoring System).
- M.S. (2020-2021): Md. Habibullah (Project Title: Image and Video Captioning in Bengali Language Using Visual Attention).
- Student Advisor for different undergraduate academic years.

## **EXTRA-CURRICULAR ACTIVITIES:**

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- Former House Tutor, Student Residential Hall, Jahangirnagar University.
- Former Joint secretary of Jahangirnagar University IT Society (JUIITS).
- Worked at Jahangirnagar University IEEE Student Branch.
- Worked at Jahangirnagar University Science Club (JUSC).
- Former Vice-president of Jahangirnagar University Bogra Student Association.