

# Md Mahedi Hassan

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## RESEARCH INTERESTS

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- Extended Reality, Privacy and Security, Machine Learning, Deep Learning, Image Processing, Computer Vision

## EDUCATION

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### PhD (Ongoing) in Computer Science

Kennesaw State University, GA, USA

August 2025 – Present

CGPA: 4.00/4.00 (Till 1<sup>st</sup> Semester)

### BSc in Computer Science and Engineering

Khulna University of Engineering & Technology, Khulna - 9203, Bangladesh

December 2016 – April 2022

CGPA: 3.81/4.00 (3.98 after evaluation)

## RESEARCH EXPERIENCE

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### Kennesaw State University | Graduate Research Assistant

August 2025 - Present

- Working as a part of VeriPro: Verified Probabilistic Cognitive Reasoning for Tactical Mixed Reality Systems [Funded By: Defense Advanced Research Projects Agency (DARPA)]
- Privacy Preserving Techniques for Extended Reality
- One article accepted in the IEEE VR 2026 as a corresponding author
- One article published in the ACM MobiHoc 2025, Houston, TX, USA

### University of Asia Pacific | Undergrad Thesis Supervisor

January 2023 - Present

- Ensemble Learning Based Ventilator-Associated Pneumonia Prediction Within 24 Hours
- A Face Anti-Spoofing Framework Based on Optical Flow Field and Texture Analysis
- An Ensemble Learning Based Approach to Predict the Risk of Cardiovascular Disease
- Skin Lesion Classification using Deep Learning Models
- Sleep Cycle Classification using Time-series based Models
- One article published in a conference, and one published in a journal

### Khulna University of Engineering & Technology | Undergrad Thesis and Project

August 2018 – January 2022

- Rule-based System for Quiz Question Generation from Text using NLP
- Chronic Kidney Disease Prediction using Machine Learning Methods
- One article published in a conference

## PUBLICATIONS

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- Shadin, N. S., Ahmed, N., **Hassan, M. M.**, Islam, R., & Zhang, X. (2025, October). **Interpretable framework for classifying gender from behavioral motion data in extended reality (XR)**. In *Proceedings of the 26th International Symposium on Mobile Ad Hoc Networking and Computing (MobiHoc '25)* (pp. 485-490). ACM.
- Ahmed, F., Siam, J. H., **Hassan, M. M.**, Adnan, M. A., & Rahman, M. T. (2024, October). **Ensemble Learning Based Ventilator-Associated Pneumonia Prediction Within 24 Hours**. In *Proceedings of the 3rd International Conference on Computing Advancements* (pp. 705-712). ACM.
- Rahman, M. T., Haque, M., Khan, A., Mitu, S. A., & **Hassan, M. M.** (2024). **Design and Performance Analysis of Underwater Light Communication System**. *International Journal of Microwave & Optical Technology*, 19(2) (pp. 218-225).
- **Hassan, M. M.**, Ahamad, T., & Das, S. (2022, December). **An ensemble learning approach for chronic kidney disease prediction using different machine learning algorithms with correlation based feature selection**. In *2022 25th International Conference on Computer and Information Technology (ICCIT)* (pp. 242-247). IEEE.

## PROFESSIONAL EXPERIENCE

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### Graduate Research Assistant | Kennesaw State University, GA, USA

August 2025 - Present

- Conducting comprehensive literature reviews to support ongoing research projects
- Data collection and processing data for further analysis
- Developing analytical models and interpreting results to derive research insights

**Lecturer (On Study Leave)** | *Department of CSE, University of Asia Pacific, Bangladesh* August 2022 - Present

- **Courses Taught:** Peripheral and Interfacing, Software Development, Structured Programming, Computer Graphics, Numerical Methods, Machine Learning, Digital Logic Design, Bioinformatics, Technical Writing and Presentation
- Member of Curriculum Development Committee and Routine Development Committee
- Advisor of a group of students
- Convener of Math Club of CSE, UAP

**IELTS Trainer (Part-time)** | *PATRON IELTS, Dhaka, Bangladesh* March 2023 – July 2025

- Preparing and assessing mock tests for students
- Coordinating the other instructors to maintain uniformity of classes

**Support Instructor (Part-time)** | *Ostad Limited, Dhaka, Bangladesh* October 2023 – March 2024

- Supporting students facing problems in the course “Software Quality Assurance”
- Preparing quizzes, assignments, and live test questions
- Evaluating answer scripts of students

## PROJECTS

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- **Dynamic Disaster Response Network (C#, Visual Studio):** Designed with graph algorithms for Atlanta city
- **Prime Computers (ASP.NET, C#):** An e-commerce website developed for a computer store
- **Tuition4U (Swift):** A tuition finder app developed for the iOS platform
- **Quizzy (Python, NLP):** A software that automatically generates quiz questions and validates the answers tolerating typos
- **Box Shooter (C#, Unity 3D):** A shooting game where player shoots boxes to earn points
- **Flip N Win (C++, Game Theory):** A game where the player plays against an artificially intelligent agent to win

## SKILLS

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**Programming Languages:** C, C++, C#, Python, Java, Swift  
**DBMS:** ORACLE, My-SQL  
**Game Development:** Unity3D  
**Hardware:** Arduino, Raspberry Pi  
**Others:** OpenCV, OpenGL

## STANDARDIZED TEST SCORES

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**International English Language Testing System (IELTS)** December 2024

- Overall – 8.0 (Listening 8.5, Reading 8.5, Writing 7.0, Speaking 7.0)

## HONORS & ACCOLADES

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**Dean’s Award (Offered to average GPA of 3.75 or above achievers)**

- Achieved an average GPA of 3.93, 3.94, and 3.79 out of 4.00 in sessions 2019-2020, 2018-2019, and 2017-18, respectively.

**Dr. Fatema Rashid Best Paper Award and Best Presentation Award**

- 2022 25<sup>th</sup> International Conference on Computer and Information Technology (ICCIT)

## OTHER ACTIVITIES

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**Reviewer** | *3rd International Conference on Computing Advancements (ICCA)* 2024

- Reviewed six articles for the conference

**Convener** | *Math Club of CSE, UAP* September 2022 – July 2025

- Arranged the 1<sup>st</sup>, 2<sup>nd</sup>, and 3<sup>rd</sup> Intra University MathFest of UAP

**Host Office Volunteer Coordinator** | *ICPC World Finals Dhaka 2022* November 2022

- Coordinating over 100 student volunteers for the championship