

# MD ALOMGEER HUSSEIN

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## EDUCATION

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**Ph.D. in Information Systems**, University of Maryland, Baltimore County August 2022 - Present

Advisor: Professor Dr. Tera L. Reynolds

Assistant Professor,

Director at Care Research Lab,

Department of Information Systems,

University of Maryland, Baltimore County

**Relevant Coursework:** Deep Learning, Casual AI, Data Mining,  
Human-Computer Interaction, Computational Methods for IS Research

**Cumulative GPA: 3.783/4**

Enrolled in Spring 2024 (Final Semester): Intro to NLP, Digital Health Equity

**M.Sc. in Electrical and Electronic Engineering**,

University of Dhaka, Bangladesh.

October 2017 (CGPA: 3.27/4)

**B.Sc. in Electrical and Electronic Engineering**,

University of Dhaka, Bangladesh.

December 2015 (CGPA: 2.94/4)

## SKILLS SUMMARY

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**Languages:** Python, C, MATLAB, SQL, HTML, CSS

**Frameworks:** Pytorch, Pytorch Geometric, Networkx, Deep Graph Library, Scikit, Tensorflow, Pandas

**Tools:** GIT, MySQL

**Soft Skills:** Leadership, Sports person, Event Management, Public Speaking, Time Management, Calligraphy

## ACADEMIC EXPERIENCE

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**University of Maryland Baltimore County**

August 2022 - Present

Graduate Research Assistant

*Baltimore, USA*

- Research Assistant at CareResearchLab.

### Projects I am Working On:

- Co-designing Sociotechnical Solutions to Provide an Ecosystem of Support for Patient Work.
- Exploring the Potential of Large Language Models to Support Patients in Understanding and Using Their Test Results.
- Patient-facing AI: Current Status, Challenges, and Opportunities – A Systematic Review. (Manuscript)

### Osaka Prefecture University

Research Assistant

Dec 2 - Dec 22 in 2019

Sakura Science Exchange Program

*Osaka, Japan*

Advisor: Koichi Kise

Professor,

Osaka Prefecture University, Japan.

- Selected for Sakura Science Exchange Program administered by Japan Science and Technology Agency.

- Worked on "Gaze-Based Confidence Estimation on Multiple-Choice Questions," a system that estimates confidence while solving multiple-choice questions by eye-tracking and gives feedback about which question should be evaluated carefully.

## TEACHING EXPERIENCE

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### Teaching Assistant, IS 410 Introduction to Database Design

*University of Maryland, Baltimore County* — Fall 2023

Led full class sessions and collaborated in course development and grading, ensuring continuity and alignment with academic goals. Managed online platforms for student interaction and provided individual tutoring to enhance understanding of database design.

## MENTORING EXPERIENCE

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### Mentor for Senior Level Student

*University of Maryland, Baltimore County* — Summer 2023 to Spring 2024

- Mentored Austyn Nguyen on research methodologies, data analysis, and academic writing.
- Collaboratively worked on the systematic review paper titled "Patient-facing AI: Current Status, Challenges, and Opportunities – A Systematic Review". (Manuscript)

## RESEARCH INTERESTS

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My interests span Deep Learning, Machine Learning, Natural Language Processing, Generative AI, and the application of Large Language Models in medicine. With a robust academic foundation, I passionately explore and contribute to these fields, aiming to advance knowledge and practice in my areas of study.

## PUBLICATIONS

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**Journal:** Md. A. Hussein, Md. T. B. Noman and Md. A. R. Ahad. *A Study on Tiredness Measurement using Computer Vision*. Journal of the Institute of Industrial Applications Engineers Vol.7, No.4 (2019) pp.110–117.

**Journal:** M.A. Islam, M.Z.H. Majumder and **M.A. Hussein**. *Chronic kidney disease prediction based on machine learning algorithms*. Journal of Pathology Informatics. 2023.100189.

## PAPER IN REVIEW

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**Journal:** M.A. Islam, M.Z.H. Majumder and **M.A. Hussein**. *A Review of Machine Learning and Deep Learning Algorithms for Parkinson's Disease Detection using Handwriting and Voice Datasets*. Submitted in Elsevier.

## LEADERSHIP

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- Led a team of five at the Sakura Science Exchange Program administered by the Japan Science and Technology Agency, Japan. Dec 2 - Dec 22 in 2019

## REFERENCES

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### Dr. Tera L. Reynolds

Assistant Professor  
Department of Information Systems,  
University of Maryland, Baltimore County  
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### Dr. James Foulds

Associate Professor  
Department of Information Systems,  
University of Maryland, Baltimore County  
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### Dr. Jianwu Wang

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