

# Murad Hasan

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## Research Interest

- Human Action Recognition
- Computer Vision
- Image Processing
- AI Ethics
- Deep Learning
- Machine Learning

## Education

### University of Southern Mississippi

*Master of Science in Computer Science*

Jan. 2025 – present

Mississippi, USA

GPA - 3.75 out of 4.00

### Brac University

*Bachelor of Science in Computer Science and Engineering*

2018 – 2022

Dhaka, Bangladesh

CGPA - 3.92 out of 4.00

Major GPA - **4.00** out of 4.00

## Publications

- **M. Hasan**, S. Iqbal, M.B.H. Faisal, M.M.H. Nelay, M.T. Kabir, M.T. Reza, M.G.R. Alam, M.Z. Uddin, “A Computer Vision Based Approach for Stalking Detection Using a CNN-LSTM-MLP Hybrid Fusion Model”, IEEE Open Journal of the Computer Society (**Q1, Impact Factor: 8.2**). [Under Review, [Preprint](#)]
- **M. Hasan**, R. Abdelfattah, A. Sherif, “A Comprehensive Survey on Facial Expression Generation: From GANs to LLM-Guided Multimodal Models”, IEEE Open Journal of the Computer Society (**Q1, Impact Factor: 8.2**). [Under Review]
- A. Hossain, **M. Hasan**, R. Abdelfattah, K. Abdelfattah, “Evaluating Prompt-Guided Vision-Language Models for Crack Segmentation”, IEEE International Midwest Symposium on Circuits and Systems (**MWSCAS 2025**), Lansing, MI, USA. [Accepted, in press]
- A. Hossain, **M. Hasan**, R. Abdelfattah, D. Scott, K. Abdelfattah, A. Sherif, “Evaluating Prompt Engineering for Generalized Power Line Segmentation”, **IEEE SoutheastCon 2025**, Concord, NC, USA. DOI: [10.1109/SoutheastCon56624.2025.10971697](https://doi.org/10.1109/SoutheastCon56624.2025.10971697)
- M. H. K. Mehedi, I. Arafin, **M. Hasan**, F. Rahman, R. Tasin, A. A. Rasel, “A Transfer Learning Approach For Efficient Classification of Waste Materials”, 2023 IEEE 13th Annual Computing and Communication Workshop and Conference (**CCWC**), Las Vegas, NV, USA. DOI: [10.1109/CCWC57344.2023.10099127](https://doi.org/10.1109/CCWC57344.2023.10099127)

## Ongoing Research Projects

- Federated Learning–Based Decentralized Facial Expression Recognition System  
Supervisor: Dr. Rabab Abdelfattah (Oct. 2025 - Present)
- An Agentic AI–Driven Multi-Agent Surveillance System for Human Action Recognition  
Supervisor: Dr. Rabab Abdelfattah (Aug. 2025 - Present)
- AI in Bereavement Care: Challenges, Framework, and Design Guidelines for Griefbots  
Supervisor: Dr. Rabab Abdelfattah (Jan. 2025 - Present)

## Work Experience

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### Graduate Research Assistant

Jan. 2025 – Present

*Supervisor: Dr. Rabab Abdelfattah, University of Southern Mississippi*

Mississippi, USA

- Working on computer vision and AI projects including segmentation, action recognition, agentic AI, and AI ethics.
- Developing and optimizing computer vision models for tasks such as object detection and classification.
- Presenting research progress in lab meetings, seminars, and academic conferences.

### Adjunct Lecturer

Sept. 2022 – 2024

*Brac University*

Dhaka, Bangladesh

- Designed and implemented effective and inclusive teaching arrangements and learning activities.
- Developed and monitored assessments to measure students performance and understanding.
- Written research proposals, papers and other publications.
- **Courses taught:** Programming Language, Data Structures, Operating Systems, Microprocessors.

### Software Engineering Intern

Aug. 2022 – Oct. 2022

*Samsung R&D Institute Bangladesh*

Dhaka, Bangladesh

- Designed and built applications for the WearOS platform.
- Worked on bug fixing and improving application performance.
- Built two health services applications in WearOS to measure heart rate and track deadlift exercise.

## Leadership Experience

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### Director of Information and Technology

Jan. 2019 – Feb. 2022

*Brac University Business Club (BIZ BEE)*

Dhaka, Bangladesh

- Led a team of 25 people to carry out departmental responsibilities.
- Successfully directed a few events' digital campaigns, including a business case competition.

### Volunteer

Dec. 2016 – Apr. 2018

*Obhizatrik Foundation*

Dhaka, Bangladesh

- Worked closely with underprivileged children to provide quality education and health care.
- Organized and executed successful events, fundraisers, or campaigns to raise awareness and funding.

## Honors and Scholarships

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- **Merit Based Scholarship, Brac University.**
- **Awarded Vice-Chancellor and Dean List Student, Brac University.**

## Programming and Computing Skills

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**Languages:** Python, Java, C++, SQL, HTML, CSS

**Developer Tools:** Jupyter Notebook, PyCharm, VS Code, Android Studio, NetBeans

**Frameworks / Technologies:** Tensorflow, Keras, Django, GitHub

## References

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### Dr. Rabab Abdelfattah

Assistant Professor

School of Computing Sciences and Computer Engineering  
University of Southern Mississippi, Hattiesburg, MS, USA

✉ rabab.abdelfattah@usm.edu

### Dr. Md. Golam Rabiul Alam

Professor

Department of Computer Science and Engineering  
Brac University, Dhaka, Bangladesh

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