

# 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 (USM)

Master of Science in Computer Science

Jan. 2025 – present

Mississippi, USA

GPA - 3.85 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, “*StalkNet: 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 Access (**Q1, Impact Factor: 3.6**). [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. DOI: [10.1109/MWSCAS53549.2025.11244601](https://doi.org/10.1109/MWSCAS53549.2025.11244601)
- 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 Generation  
Supervisor: Dr. Rabab Abdelfattah (Nov. 2025 - Present)
- A Novel Deep Learning Framework for Automated Auditory Brainstem Response Detection  
Supervisor: Dr. Rabab Abdelfattah (Sep. 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, generative models, and AI ethics.
- Developing and optimizing vision language 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.

### Undergraduate Teaching Assistant / Student Tutor

Feb. 2021 – Apr. 2022

*Brac University*

Dhaka, Bangladesh

- Worked with the students to develop a tutoring plan that fits the students individual needs.
- Prepared tutoring sessions to ensure the students academic development.
- Provided one-on-one support to students who needed it.

## Leadership Experience

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### Treasurer

July 2025 – Present

*Bangladeshi Student Association at USM*

Mississippi, USA

- Managing and maintaining the associations financial records, budgeting, and expense tracking.
- Assisting new Bangladeshi students in transitioning to life in the U.S., including housing, transportation, and campus orientation support.
- Organizing cultural, social, and academic events to build community engagement and promote Bangladeshi culture on campus.

### 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.

## 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

## Honors and Scholarships

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