

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. Neloy, 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. Arafat, **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

Graduate Research Assistant	Jan. 2025 – Present
<i>Supervisor: Dr. Rabab Abdelfattah, University of Southern Mississippi</i>	Mississippi, USA
<ul style="list-style-type: none">• 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
<i>Brac University</i>	Dhaka, Bangladesh
<ul style="list-style-type: none">• 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
<i>Samsung R&D Institute Bangladesh</i>	Dhaka, Bangladesh
<ul style="list-style-type: none">• 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
<i>Brac University</i>	Dhaka, Bangladesh
<ul style="list-style-type: none">• 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

Treasurer	July 2025 – Present
<i>Bangladeshi Student Association at USM</i>	Mississippi, USA
<ul style="list-style-type: none">• 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
<i>Brac University Business Club (BIZ BEE)</i>	Dhaka, Bangladesh
<ul style="list-style-type: none">• 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

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

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