

Murad Hasan

604 N 31st Ave Apt C3, Hattiesburg, MS 39401, USA

📞 +1 601 307 0421 | 📩 murad.hasan@g.bracu.ac.bd | 💬 LinkedIn | ⚡ Google Scholar | 🌐 Webpage

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

CGPA - 3.92 out of 4.00

Dhaka, Bangladesh

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, “*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

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, 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
<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.	

Leadership Experience

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.	
Volunteer	Dec. 2016 – Apr. 2018
<i>Obhizatrik Foundation</i>	Dhaka, Bangladesh
<ul style="list-style-type: none">• 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

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

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

References

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

✉ rabiul.alam@bracu.ac.bd