

Md Kawsher Mahbub

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Objectives

My aim is to work innovatively for the enhancement and betterment of education. To pursue a challenging career and be part of a progressive organization that gives scope to enhance my knowledge, skills and to reach the pinnacle in the computing and research field with sheer determination, dedication and hard work and contribute towards the organization's goals.

Research Interests

- Artificial Intelligence
- Health Informatics
- Deep Learning/Machine Learning
- Computer Vision
- Internet of Things (IoT)

Professional Experience

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|------------------------|---|
| Aug, 2023 - May, 2025 | Graduate Teaching Assistant, Department of Computer Science
Kent State University, 800 E Summit St, Kent, OH 44240, United States |
| Dec, 2021 - July, 2023 | Lecturer, Department of Computer Science and Engineering
Bangladesh University of Business and Technology (BUBT)
Rupnagar, Mirpur-2, Dhaka-1216, Bangladesh. |

Educational Background

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|-----------------------|---|
| Aug, 2023 - May 2025 | MS in Computer Science, May 2025
Kent State University, 800 E Summit St, Kent, OH 44240, United States.
CGPA: 3.80 |
| Feb, 2017 - May, 2021 | Bachelor of Science in Computer Science and Engineering
Bangladesh University of Business and Technology (BUBT)
Rupnagar, Mirpur-2, Dhaka-1216, Bangladesh.
CGPA: 3.84 |

Publications: Journals & Conferences

1. **Mahbub, M. K.**, Biswas, M., Gaur, L., Alenezi, F., & Santosh, K. C. (2022). Deep features to detect pulmonary abnormalities in chest X-rays due to infectious diseaseX: Covid-19, pneumonia, and tuberculosis. Information Sciences, 592, 389-401.

2. Ghose, P., Alavi, M., Tabassum, M., Uddin, M. A., Biswas, M., **Mahbub, K.**, & Zhao, Z. (2022). Detecting COVID-19 infection status from chest X-ray and CT scan via single transfer learning driven approach. *Frontiers in Genetics*, 13.
3. Ghose, P., Oliullah, K., **Mahbub, M. K.**, Biswas, M., Uddin, K. N., & Jamil, H. M. (2024). Explainable AI assisted heart disease diagnosis through effective feature engineering and stacked ensemble learning. *Expert Systems with Applications*, 265, 125928.
4. **Mahbub, M. K.**, Zamil, M. Z. H., Miah, M. A. M., Ghose, P., Biswas, M., & Santosh, K. C. (2022, July). Mobapp4infectiousdisease: Classify covid-19, pneumonia, and tuberculosis. In *2022 IEEE 35th International Symposium on Computer-Based Medical Systems (CBMS)* (pp. 119-124). IEEE.
5. **Mahbub, M.**, Biswas, M., Miah, A. M., Shahabaz, A., & Kaiser, M. S. (2021, July). Covid-19 detection using chest x-ray images with a regnet structured deep learning model. In *International Conference on Applied Intelligence and Informatics* (pp. 358-370). Springer, Cham.
6. **Mahbub, M.**, Biswas, M., Miah, M., Mozid, A., & Kaiser, M. S. (2022). Deep Neural Networks for Brain Tumor Detection from MRI Images. In *Proceedings of the Third International Conference on Trends in Computational and Cognitive Engineering* (pp. 473-485). Springer, Singapore.
7. Biswas, M., **Mahbub, M.**, Miah, M., & Mozid, A. (2022). An Enhanced Deep Convolution Neural Network Model to Diagnose Alzheimer's Disease Using Brain Magnetic Resonance Imaging. In *International Conference on Recent Trends in Image Processing and Pattern Recognition* (pp. 42-52). Springer, Cham.
8. **Mahbub, M. K.**, Miah, M. A. M., Islam, S. M. S., Sorna, S., Hossain, S., & Biswas, M. (2021, November). Best Eleven Forecast for Bangladesh Cricket Team with Machine Learning Techniques. In *2021 5th International Conference on Electrical Engineering and Information & Communication Technology (ICEEICT)* (pp. 1-6). IEEE.
9. Rabbi, M. F., Zohra, F. T., Hossain, F., Akhi, N. N., Khan, S., **Mahbub, K.**, & Biswas, M. (2022, December). Autism spectrum disorder detection using transfer learning with VGG 19, inception V3 and DenseNet 201. In *International Conference on Recent Trends in Image Processing and Pattern Recognition* (pp. 190-204). Cham: Springer Nature Switzerland.
10. Biswas, M., Nova, A. J., **Mahbub, M. K.**, Chaki, S., Ahmed, S., & Islam, M. A. (2021, August). Stock Market Prediction: A Survey and Evaluation. In *2021 International Conference on Science & Contemporary Technologies (ICSCT)* (pp. 1-6). IEEE.
11. Biswas, M., Akhund, N. U., Md, T., **Mahbub, M.**, Islam, S., Md, S., & Shamim Kaiser, M. (2022). A survey on predicting player's performance and team recommendation in game of cricket using machine learning. In *Information and Communication Technology for Competitive Strategies (ICTCS 2020)* (pp. 223-230). Springer, Singapore.

Technical Skills

- **Programming Language:** Python, C, C++, C#, Java
- **Web Technology:** HTML5, CSS3, PHP, WordPress

- **Framework and libraries:** PyTorch, TensorFlow, OpenCV, NumPy, SciPy, Scikit-learn, Pandas, Keras, Matplotlib
- **Database:** MySQL, Oracle
- **Development Tools:** Jupyter Notebook, Anaconda, PyCharm, Microsoft Visual Studio, Code Block, Net Beans, Eclipse, Android Studio
- **Miscellaneous:** GIT, LATEX, UML, E-R Diagram

Academic Projects

- Deep Neural Network for Pulmonary Abnormality Screening Using Chest X-ray: Covid-19, Pneumonia and Tuberculosis
- Infection status from chest X-ray and CT scan via single transfer learning driven approach
- Hostel Management System

Volunteering/ Extra-curricular Activities

- Got 120+ accepted solutions at URI online judge
(Profile: <https://www.urionlinejudge.com.br/judge/en/profile/193022>)
- Got 50+ online judge accepted solutions.
(Profile: <https://www.stopstalk.com/user/profile/kawsher11>)
- Participated in intra-university programming contests

Honors and Awards

- Achieved first place and People's Choice award in the International Cook-Off 2024 from Kent State University.
- Achieved a merit-based scholarship five times from the Bangladesh University of Business and Technology (BUBT).

Peer-Review Activities

- Peer reviewer for The 36th IEEE International Symposium on Computer-Based Medical Systems (IEEE CBMS2023)
- Peer reviewer for The 37th IEEE International Symposium on Computer-Based Medical Systems (IEEE CBMS2024)
- Served as Invited Peer Reviewer for manuscripts submitted to CMC – Computers, Materials & Continua (Tech Science Press)

Leadership

Nov, 2024 - Sept, 2025	Secretary, Bangladesh Student Association at Kent State University (BSA-Kent)
Oct, 2022 - July, 2023	Advisor, IEEE CS BUBT Student Branch Chapter
July, 2022 - Oct, 2022	Member, Registration & Web Site Committee, ICPC Asia Dhaka Regional Contest 2021

Membership of Research Group

- Member, IEEE.
- Deep Learning Research Group (DLRG), Department of Computer Science and Engineering, Bangladesh University Of Business and Technology.

Recommendations

Milon Biswas (Undergrad Thesis Supervisor)
Assistant Professor, Dept. of CSE
Bangladesh University of Business and Technology
Email: milonbiswas4702@gmail.com

KC Santosh
Chair, Dept. of Computer Science
The University of South Dakota
Email: santosh.kc@usd.edu