AL AMIN BISWAS

Dhaka, Bangladesh

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RESEARCH INTERESTS

Machine Learning, Deep Learning, Health Informatics, Human-Computer Interaction

EDUCATIONAL QUALIFICATION

Jahangirnagar University, Savar, Dhaka   June 2018 – July 2019
M.S. in Computer Science and Engineering
Thesis Dissertation: Forecasting the Trends and Patterns of Crime in Bangladesh using Machine Learning Model

Jahangirnagar University, Savar, Dhaka   January 2013 – May 2018
B.Sc. in Computer Science and Engineering

TEACHING EXPERIENCE

Bangabandhu Sheikh Mujibur Rahman University, Kishoreganj   February 2023 – Present
Lecturer, Department of Computer Science and Engineering

Daffodil International University, Dhaka   January 2022 – January 2023
Senior Lecturer, Department of Computer Science and Engineering

Daffodil International University, Dhaka   September 2018 – December 2021
Lecturer, Department of Computer Science and Engineering

SELECTED PUBLICATIONS

Number of Citation: 680+ (According to google scholar.)

- **A. A. Biswas**, "A Comprehensive Review of Explainable AI for Disease Diagnosis," *Array*, Elsevier, July, 2024. [Paper]

- M. S. Zulfiker, N. Kabir, **A. A. Biswas**, T. Nazneen, and M. S. Uddin, "An In-Depth Analysis of Machine Learning Approaches to Predict Depression," *Current Research in Behavioral Sciences*, Elsevier, May, 2021. [Paper]

- M. S. Zulfiker, N. Kabir, **A. A. Biswas**, S. Zulfiker, and M. S. Uddin, "Analyzing the Public Sentiment on COVID-19 Vaccination in Social Media: Bangladesh Context," *Array*, Elsevier, June, 2022. [Paper]

- R. Sadik, A. Majumder, **A. A. Biswas**, B. Ahammad, and M. M. Rahman, "An in-depth analysis of Convolutional Neural Network architectures with transfer learning for skin disease diagnosis," *Healthcare Analytics*, Elsevier, November, 2023. [Paper]

- M. S. Zulfiker, N. Kabir, **A. A. Biswas**, and P. Chakraborty, "Predicting Insomnia Using Multilayer Stacked Ensemble Model," *5th International Conference on Advances in Computing and Data Sciences (ICACDS)*, Springer, 2021. [Paper]

- M. J. Ali, B. C. Das, S. Saha, **A. A. Biswas**, and P. Chakraborty, "A Comparative Study of Machine Learning Algorithms to Detect Cardiovascular Disease with Feature Selection Method," *2nd International Conference on Machine Intelligence and Data Science Applications (MIDAS)*, Springer, 2022. [Paper]

- **A. A. Biswas**, M. S. Zulfiker, A. Rajbongshi, M. J. Mia, and A. Majumder, "Feature Ranking Based Carrot Disease Recognition Using MIFS Method," *21st International Conference on Hybrid Intelligent Systems (HIS 2021)*, Springer, 2021. [Paper]

- T. T. Prama, **A. A. Biswas**, and M. M. Anwar, "Deep Learning-Based Classification of Conference Paper Reviews: Accept or Reject?" *23rd International Conference on Intelligent Systems Design and Applications (ISDA 2023)*, Springer, 2023. [Paper]

- M. M. Rahman, B. C. Das, **A. A. Biswas**, and M. M. Anwar, "Predicting Participants' Performance in Programming Contests using Deep Learning Techniques," *22nd International Conference on Hybrid Intelligent Systems (HIS 2022)*, Springer, 2022. [Paper]

- **A. A. Biswas** and S. Basak, "Forecasting the Trends and Patterns of Crime in Bangladesh using Machine Learning Model," *2nd International Conference on Intelligent Communication and Computational Techniques (ICCT)*, IEEE, 2019. [Paper]

SELECTED AWARDS & ACHIEVEMENTS

Best Paper Award: Received from the Third International Conference on Smart Systems: Innovations in Computing (SSIC), Springer, 2021.
Best Paper Award: Received from the International Conference on Machine Intelligence and Data Science Applications (MIDAS), Springer, 2021.
Student Scholarship: Received university yearly scholarship for outstanding results.
Scholarship for Entrance Exam: Received scholarship for achieving the top position in the undergraduate entrance exam.

ACADEMIC SERVICES

Session Chair: International Conference on Computer Communication and Informatics (ICCCI 2021), IEEE, India.
Judge: Mujib 100 Idea Contest 2021, Organized by University Grants Commission (UGC), Dhaka, Bangladesh.
Co-convener: International Conference on Machine Intelligence and Data Science Applications (MIDAS 2021), Springer, Bangladesh.
Reviewer: Elsevier Journals: Array, Heliyon, Computers in Biology and Medicine, Healthcare Analytics, Current Research in Behavioral Sciences, Computer Methods and Programs in Biomedicine, Social Sciences & Humanities Open.
Reviewer: Taylor & Francis Journals: Computer Methods in Biomechanics and Biomedical Engineering, Cogent Engineering, International Journal of Digital Earth
Reviewer: IEEE Access.
Reviewer: Bulletin of Electrical Engineering and Informatics (BEEI), Published by the Institute of Advanced Engineering and Science, Indonesia
Reviewer: 2nd International Conference on Machine Intelligence and Emerging Technologies (MIET 2024), Springer, Bangladesh.
Reviewer: 6th International Conference on Computer Science and Application Engineering (CSAE 2022), ACM International Conference Proceedings Series, Nanjing, China.
Reviewer: International Conference on Science & Contemporary Technologies (ICSCT-2021), IEEE, Bangladesh.
Adviser: Computer Programming Club (Duration: 2020-2021), Department of Computer Science and Engineering, Daffodil International University, Bangladesh.
Lead Speaker: "Application of Artificial Intelligence and Technology in Education and Research", a presentation conducted at the Department of Computer Science and Engineering, Bangabandhu Sheikh Mujibur Rahman University, Kishoreganj, December 2023, Bangladesh.

TECHNICAL SKILLS

Languages: Python, C, C++, Java
Machine Learning: PyTorch, Keras, OpenCV, NLTK
Developer Tools: VS Code, Android Studio, PyCharm, Jupyter Notebook, Spyder, Weka
Documentation: LaTeX / Overleaf
HCI Research Skills: Interviews, Surveys, Data Analysis, Statistics, Usability Testing, A/B Testing
Operating System: Linux, Windows

STANDARDIZED TEST SCORE

The International English Language Testing System (IELTS) **October, 2024**
Overall Score: 7.0 (No band less than 6.5)