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RESEARCH INTERESTS

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

EDUCATIONAL QUALIFICATION

Jahangirnagar University, Savar, Dhaka

March 2018 – April 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 – February 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: 700+ (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.

Co-convener: International Conference on Machine Intelligence and Data Science Applications (MIDAS 2021), Springer, Bangladesh.

Judge: Mujib 100 Idea Contest 2021, Organized by University Grants Commission (UGC), Dhaka, Bangladesh.

Reviewer: Elsevier Journals: Array, Heliyon, Computers in Biology and Medicine, Healthcare Analytics, Current Research in Behavioral Sciences, Computer Methods and Programs in Biomedicine, Computer Methods and Programs in Biomedicine Update.

Reviewer: Taylor & Francis Journals: Computer Methods in Biomechanics and Biomedical Engineering, Cogent Engineering, International Journal of Digital Earth.

Reviewer: IEEE Access.

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.

Coach: BSMRU Team at the International Collegiate Programming Contest (ICPC) Asia Dhaka Regional 2024.

Adviser: Computer Programming Club (2020-2021), Department of CSE, Daffodil International University, Dhaka, Bangladesh.

Lead Speaker: Application of Artificial Intelligence and Technology in Education and Research, BSMRU, Kishoreganj, Bangladesh, December, 2023.

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)