

# AL AMIN BISWAS

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## RESEARCH INTERESTS

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

## EDUCATIONAL QUALIFICATION

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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*

**Project Title:** Enterprise Resource Planning: Course Management System

## TEACHING EXPERIENCE

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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

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Number of Citation: 650+ (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

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**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

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**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

**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:** “How to Start Research”, a seminar conducted at Dept. of Computer Science and Engineering, Daffodil International University, June, 2021, Bangladesh.

## TECHNICAL SKILLS

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**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

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**The International English Language Testing System (IELTS)**

**August, 2024**

*Overall: 6.5 (Listening: 6.5, Reading: 6.5, Speaking: 6.5, Writing: 6.5)*