




AL AMIN BISWAS

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RESEARCH INTERESTS

Machine Learning (ML), Deep Learning (DL), Natural Language Processing (NLP), Artificial Intelligence in Healthcare, Health Informatics, Human–Computer Interaction (HCI)

EDUCATIONAL QUALIFICATION

Iowa State University, Ames, Iowa, USA

August 2025 – Present

PhD in Computer Science

Jahangirnagar University, Savar, Dhaka, Bangladesh

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, Bangladesh

January 2013 – February 2018

B.Sc. in Computer Science and Engineering

TEACHING EXPERIENCE

Kishoreganj University

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 Citations: 1180+ (according to Google Scholar)

- M. S. Zulfiker, N. Kabir, **A. A. Biswas**, Md. Mashih Ibn Yasin, and M. S. Uddin, “Identifying Suicidal Ideations from Social Media Posts Using Deep Learning and Explainable AI-Driven Approach,” *Applied Soft Computing* (Elsevier, Quartile: Q1), September 2025. [\[Paper\]](#)
- **A. A. Biswas**, M. S. Zulfiker, M. M. Rahman, M. R. Jani, and M. M. Anwar, “Data Privacy and Security Analysis for Mental Health Chatbot Applications,” *IEEE/ACM International Conference on Human-Robot Interaction (HRI 2025)*, Melbourne, Australia, March 2025. (Rank: A) [\[Paper\]](#)
- **A. A. Biswas**, “A Comprehensive Review of Explainable AI for Disease Diagnosis,” *Array* (Elsevier, Quartile: Q1), July 2024. [\[Paper\]](#)
- 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, Quartile: Q1), 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, Quartile: Q1), November 2023. [\[Paper\]](#)
- 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. (Rank: C) [\[Paper\]](#)

- 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, Quartile: Q2), May 2021. [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. (Rank: C) [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. (Rank: C) [Paper]

SELECTED AWARDS & ACHIEVEMENTS

Best Paper Award: Third International Conference on Smart Systems: Innovations in Computing (SSIC), Springer, 2021.

Best Paper Award: International Conference on Machine Intelligence and Data Science Applications (MIDAS), Springer, 2021.

Student Scholarship: Awarded yearly university scholarship for outstanding academic performance.

Scholarship for Entrance Exam: Awarded scholarship for achieving the highest score in the undergraduate admission test.

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

Reviewer, Elsevier Journals: 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; Array; Heliyon; Applied Nursing Research; Machine Learning with Applications; International Journal of Human-Computer Studies

Reviewer, JMIR Publications: Journal of Medical Internet Research; JMIR Medical Informatics

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

Reviewer: IEEE Access

Reviewer, ACM SIGCHI Conference: CHI 2025 (A*); HRI 2025 (A); MobileHCI 2025 (B)

Reviewer: International Conference on Computer Science and Application Engineering (CSAE 2022), ACM International Conference Proceedings Series, Nanjing, China

Coach: KiU Teams 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, Kishoreganj University, 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 Systems: Linux, Windows

STANDARDIZED TEST SCORE

The International English Language Testing System (IELTS)

October 2024

Overall Score: 7.0 (No band less than 6.5)