

# AL AMIN BISWAS

Dhaka, Bangladesh

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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  
*PhD in Computer Science*

August 2025 – Present

Jahangirnagar University, Savar, Dhaka, Bangladesh  
*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  
*B.Sc. in Computer Science and Engineering*

January 2013 – February 2018

## TEACHING EXPERIENCE

Kishoreganj University  
Lecturer, Department of Computer Science and Engineering

February 2023 – Present

Daffodil International University, Dhaka  
Senior Lecturer, Department of Computer Science and Engineering

January 2022 – January 2023

Daffodil International University, Dhaka  
Lecturer, Department of Computer Science and Engineering

September 2018 – December 2021

## 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

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**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

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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

**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

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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 Systems:** Linux, Windows

## STANDARDIZED TEST SCORE

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

*Overall Score: 7.0 (No band less than 6.5)*

October 2024