# AL AMIN BISWAS

Dhaka,Bangladesh

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## RESEARCH INTERESTS

**Machine Learning, Deep Learning, Natural Language Processing, AI in Healthcare, Health Informatics, HCI**

## 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

**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 Citation: 865+ (According to google scholar.)

- **A. A. Biswas**, M. R. Jani, M. S. Zulfiker, M. R. Biswas, and M. M. Anwar, "Expectation Versus Reality - An Analysis of Data Privacy, Security, and User Perception in Mobile VPN Applications," *IEEE Transactions on Human-Machine Systems* [Under Review]
- 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, December, 2024. [Under Review]
- **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, 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]
- 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. 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:** 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.
**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: Taylor & Francis Journals:** Computer Methods in Biomechanics and Biomedical Engineering, Cogent Engineering, International Journal of Digital Earth.
**Reviewer:** IEEE Access.
**Reviewer:** ACM CHI Conference on Human Factors in Computing Systems (CHI 2025), (Rank: A*).
**Reviewer:** IEEE/ACM International Conference on Human-Robot Interaction (HRI 2025), (Rank: A).
**Reviewer:** ACM International Conference on Mobile Human-Computer Interaction (MobileHCI 2025), Sharm El-Sheikh, Egypt (Rank: B).
**Reviewer:** International Conference on Computer Science and Application Engineering (CSAE 2022), ACM International Conference Proceedings Series, Nanjing, China.
**Coach:** BSMRU 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, 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)*