

# Taminul Islam

## B.Sc.(Computer Science and Engineering)

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### EDUCATION

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#### Daffodil International University

Dhaka, Bangladesh

*B.Sc. in Computer Science and Engineering; GPA: 3.52/4.00*

*Feb 2022*

*Got a full free scholarship; UG -Research Assaintant*

**Thesis:** Review analysis of ride-sharing application using Bi-LSTM based RNN model- Bangladesh Perspective  
(Advisor: Most. Hasna Hena)

### RESEARCH INTEREST

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My research interest lies in exploring the applications of **machine learning, and image processing** across various sectors. I aim to investigate the potential of these technologies in improving efficiency, analysis, and problem-solving in the following areas:

- Agriculture and Plants Disease
- Healthcare Informatics

### STANDARDIZED AND ENGLISH PROFICIENCY TESTS

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#### Graduate Record Examination (GRE)

*Appeared on 12 July, 2023*

Verbal: 168, Quantitative: 157, Analytical: 4, Overall: 329

#### International English Language Testing System (IELTS)

*Appeared on 2 September, 2023*

Listening: 8.0, Reading: 7.0, Writing: 8.0, Speaking: 6.0, Overall Band Score: 7.5

### EXPERIENCE

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#### ServiceEngine Ltd.

Dhaka, Bangladesh

Executive

*August 2022 - November 2023*

- Developed and implemented a technology strategy aligned with the company's overall goals and objectives.
- Led digital transformation initiatives, including migrating to cloud-based systems, implementing new collaboration tools, and developing mobile and web applications.

#### Quadque Technologies Ltd.

Dhaka, Bangladesh

Research and Development Assistant

*Feb 2022 - Jun 2022*

- Conducted research to identify new products, technologies, or services that align with the organization's strategic goals.
- Developed and implemented research plans and methodologies to achieve project goals and objectives.

#### Daffodil International University

Dhaka, Bangladesh

Undergraduate Research Assistant (Part-Time)

*Apr 2020 - Jan 2022*

(Advisor: Most. Hasna Hena, Assistant Professor, DIU  
Omar Sharif, Lecturer, DIU)

- Collaborated with research projects by coding, writing, and mentoring juniors.
- Developed and implemented research plans and methodologies to achieve project goals and objectives.
- Conducted data collection, analysis, and utilized statistical tools.
- Assisted in literature reviews and research support.
- Attended conferences, workshops and presented there our research work

## TEACHING EXPERIENCE

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**Department of CSE, Daffodil International University**  
Student Prefect / Undergraduate Teaching Assistant (Part-Time)

Dhaka, Bangladesh  
12 Months

- Algorithms & Algorithms Lab
- Artificial Intelligence & Artificial Intelligence Lab
- Programming and Problem-Solving Lab

Time frame: 4 months each course.

## JOURNAL ARTICLE

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1. Tahosin, M. S., Sheakh, M. A., **Islam, T.**, Lima, R. J., & Begum, M. (2023). Optimizing brain tumor classification through feature selection and hyperparameter tuning in machine learning models. *Informatics in Medicine* Unlocked, 101414. [\[Paper\]](#)
2. Talukder, M. S. H., Sulaiman, R. B., Chowdhury, M. R., Nipun, M. S., & **Islam, T.** (2023). PotatoPestNet: A CTInceptionV3-RS-Based Neural Network for Accurate Identification of Potato Pests. *Smart Agricultural Technology*, 100297. [\[Paper\]](#)

## PEER-REVIEWED CONFERENCE PAPERS (SCOPUS & WoS INDEXED)

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1. **Islam, T.**, Vuyia, A., Hasan, M., & Rana, M. M. (2023, April). Cardiovascular Disease Prediction Using Machine Learning Approaches. In *2023 International Conference on Computational Intelligence and Sustainable Engineering Solutions (CISES)* (pp. 813-819). IEEE. [\[Paper\]](#)
2. Rahman, M. H., **Islam, T.**, Rana, M. M., Tasnim, R., Mona, T. R., & Sakib, M. M. (2023). Machine Learning Approach on Multiclass Classification of Internet Firewall Log Files. In *2023 International Conference on Computational Intelligence and Sustainable Engineering Solutions (CISES)* (pp. 358-364). IEEE. [\[Paper\]](#)
3. Sheakh, M. A., Tahosin, M. S., Hasan, M. M., **Islam, T.**, Islam, O., & Rana, M. M. (2023, May). Child and Maternal Mortality Risk Factor Analysis Using Machine Learning Approaches. In *2023 11th International Symposium on Digital Forensics and Security (ISDFS)* (pp. 1-6). IEEE. [\[Paper\]](#)
4. Islam, M. T., Ahmed, T., Rashid, A. R., **Islam, T.**, Rahman, M. S., & Habib, M. T. (2022, April). Convolutional Neural Network Based Partial Face Detection. In *2022 IEEE 7th International conference for Convergence in Technology (I2CT)* (pp. 1-6). IEEE. [\[Paper\]](#)
5. **Islam, T.**, Kundu, A., Ahmed, T., & Khan, N. I. (2022, April). Analysis of Arrhythmia Classification on ECG Dataset. In *2022 IEEE 7th International conference for Convergence in Technology (I2CT)*(pp. 1-6). IEEE. [\[Paper\]](#)
6. **Islam, T.**, Hosen, M. A., Mony, A., Hasan, M. T., Jahan, I., & Kundu, A. (2022, January). A proposed Bi-LSTM method to fake news detection. In *2022 International Conference for Advancement in Technology (ICONAT)* (pp. 1-5). IEEE. [\[Paper\]](#)
7. **Islam, T.** "Kundu, A., Islam Khan, N., Chandra Bonik, C., Akter, F., & Jihadul Islam, M. (2022). Machine Learning Approaches to Predict Breast Cancer: Bangladesh Perspective." In *Ubiquitous Intelligent Systems: Proceedings of Second ICUIS 2022* (pp. 291-305). Singapore: Springer Nature Singapore. [\[Paper\]](#)

## PEER-REVIEWED BOOK CHAPTERS (SCOPUS & WoS INDEXED)

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1. **Islam, T.** "Kundu, A., Lima, R. J., Hena, M. H., Sharif, O., Rahman, A., & Hasan, M. Z. (2023). Review Analysis of Ride-Sharing Applications Using Machine Learning Approaches: Bangladesh Perspective." In *Computational Statistical Methodologies and Modeling for Artificial Intelligence* (pp. 99-122). CRC Press. [\[Paper\]](#)

## AWARD & ACHIEVEMENTS

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| 1. Full Free Scholarship at Daffodil International University                                 | 2021 |
| 2. Best Mobile BOT Award (CoronaThon), Daffodil International University                      | 2020 |
| 3. Champion (Idea Contest), ICT Carnival, Daffodil International University                   | 2019 |
| 4. Semifinalist (Hackathon), Daffodil International University                                | 2019 |
| 5. Champion (Debate), Inter Department Debate Competitions, Daffodil International University | 2018 |

## PROGRAMMING LANGUAGES, TOOLS & PLATFORMS

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1. Python, Pytorch, Tensorflow, Numpy, Matplotlib
2. Google Colab, Jupyter, Pycharm Anaconda, Visual Studio, Matlab
3. Orange, SPSS, Asana, Stata, Mendeley, Scispace, Zotero, NVivo
4. Adobe Photoshop, Adobe Premier Pro
5. Latex, Trinko, MS Office

## EXTRA-CURRICULAR ACTIVITIES

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1. International player & coach (Sports) - Asian Throwball Association.
2. Sports skilled in - Soccer, Cricket, Badminton, Athletics, Volleyball.
3. 3 major programs organising chair of Daffodil International University Rotaract Club
4. Member of Rotary International
5. International Volunteer of Asian University Presidents Forum (AUPF) 2019.
6. Debate, Cultural Activities, Program Management
7. Founding General Secretary and Trainer of Dhaka Collegiate School Debating Club (DCSDC)
8. Member of IEEE & Computer Society

## REFERENCES

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### **Dr. Azizur Rahman, PhD**

Associate Professor  
School of Computing, Mathematics  
and Engineering  
Charles Sturt University, Wagga  
Wagga, NSW, Australia  
*azrahman@csu.edu.au*

### **Dr. Abdus Sattar, PhD**

Assistant Professor  
Department of Computer Science and  
Engineering  
Daffodil International University  
Ashulia, Dhaka Bangladesh  
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### **Most. Hasna Hena**

Assistant Professor  
Department of Computer Science and  
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