

Argha Chandra Dhar

Khulna, Bangladesh ♠ argha705039@gmail.com

EDUCATION

Khulna University of Engineering & Technology, Khulna, Bangladesh	November 2017 – February 2023
<ul style="list-style-type: none">◦ BSc in Computer Science and Engineering◦ CGPA: 3.91, 3rd in the class	

WORK EXPERIENCE

Lecturer	March 2023 – Present
Department of Computer Science and Engineering (CSE) Khulna University of Engineering & Technology (KUET)	

RESEARCH EXPERIENCE

Khulna University of Engineering & Technology, Khulna, Bangladesh	2020 - Present
<ul style="list-style-type: none">◦ Mentor: Dr. Muhammad Aminul Haque Akhand◦ Topic: Improving the performance of Bangla-English Machine Translation, Applying Machine Learning and Game Theory in the field of Cybersecurity	
Worcester Polytechnic Institute, Worcester, Massachusetts, USA	2021 - Present
Remote Researcher	
<ul style="list-style-type: none">◦ Mentor: Dr. Bashima Islam◦ Topic: Partial Deep Neural Network Inversion: A Security Threat for Hybrid On-Device and Cloud Computing.	

UNDERGRADUATE PROJECTS

Shobdomela: A Serious Game for Children with Autism
<ul style="list-style-type: none">◦ Supervisor: Dr. Muhammad Aminul Haque Akhand◦ Language and Software: C#, Unity3d

[CodePile](#) : This is a compiler made by using Flex and Bison

[Connectify](#) : A New Way to Connect with Your Friends

- Language: PHP, HTML, CSS, JS

PUBLICATIONS

JOURNAL PAPERS

1. **Argha Chandra Dhar**, Arna Roy, M. A. H. Akhand and Md Abdus Samad Kamal, “[Bangla↔English Machine Translation Using Attention-based Multi-Headed Transformer Model](#)” Journal of Computer Science, vol. 17, no. 10, pp. 1000-1010, 2021. DOI: 10.3844/jcssp.2021.1000.1010 Journal Indexing & Rating: Scopus
2. M. A. H. Akhand, Arna Roy, **Argha Chandra Dhar** and Md Abdus Samad Kamal, “[Recent Progress, Emerging Techniques, and Future Research Prospects of Bangla Machine Translation: A Systematic Review](#)” International Journal of Advanced Computer Science and Applications (IJACSA), vol. 12, no. 9, pp. 291-307, 2021. DOI: 10.14569/IJACSA.2021.0120933 Journal Indexing & Rating: Web of Science, Scopus
3. Arna Roy, **Argha Chandra Dhar**, M. A. H. Akhand and M. A. S. Kamal, “[Bangla-English Neural Machine Translation with Bidirectional Long Short-Term Memory and Back Translation](#)” International Journal of Computer Vision & Signal Processing (IJCVP), vol. 11, no. 1, pp. 25-31, 2021.
4. **Argha Chandra Dhar**, A. Roy, M. A. H. Akhand, M. A. S. Kamal, and K. Yamada “[Cascaded Machine Learning Approach with Data Augmentation for Intrusion Detection System](#)” I. J. Computer Network and Information Security (In Press), Journal Indexing & Rating: Scopus.

CONFERENCE PAPERS

1. **Argha Chandra Dhar**, Arna Roy, Md. Ahsan Habib, M. A. H. Akhand and N. Siddique, “[Transformer Deep Learning Model for Bangla-English Machine Translation](#)” In: Mathur, G., Bunde, M., Lalwani, M., Paprzycki, M. (eds) Proceedings of 2nd International Conference on Artificial Intelligence: Advances and Applications. Algorithms for Intelligent Systems. Springer, Singapore. DOI:10.1007/978-981-16-6332-1_24
2. Arna Roy, **Argha Chandra Dhar**, M. A. H. Akhand and M. A. S. Kamal, “BiLSTM with Back Translation Model for Bangla-English Machine Translation” in Proc. of 2021 Joint 10th International Conference on Informatics, Electronics & Vision (ICIEV) and 5th International Conference on Imaging, Vision & Pattern Recognition (IVPR), Fukuoka, Japan, August 16-20, 2021.

POSTERS

1. **Argha Chandra Dhar**, Arna Roy, Subrata Biswas, Dr. Bashima Islam, “[Studying the Security Threats of Partially Processed Deep Neural Inference Data in an IoT Device](#)” at *The 20th ACM Conference on Embedded Networked Sensor Systems (SenSys 2022)*

CONFERENCES & INVITED TALKS

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| 1. 2nd International Conference on Artificial Intelligence: Advances and Applications (ICAIAA 2021), Jaipur, India (virtual) | March 2021 |
| 2. Joint 10th International Conference on Informatics, Electronics & Vision (ICIEV) and 5th International Conference on Imaging, Vision & Pattern Recognition (IVPR), Fukuoka, Japan (Virtual) | August 2021 |

ACTIVITIES

Special Group of Interest in Programming Contest (SGIPC)	2018 – Present
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SKILLS

Programming Languages	Python, C++, C#, C, Java Bangla, English
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AWARDS & HONORS

Dean's List Award (1st year, 2nd year, 3rd year & 4th year)	
Scholarship in Higher Secondary Certificate	2017
Scholarship in Secondary School Certificate	2015