

Pranta Sarker

+880 1680 929776
psarker@neub.edu.bd
psarkerbd.github.io/

Objective

Significant years of healthy professional engagement with teaching and qualification accelerated my vision to build a career as an academician by committing my life to research and conveying knowledge.

Expertise

○ Programming Problem Solving

Solved over 600 programming problems on several online judges.

Profile: <https://www.stopstalk.com/user/profile/prantacse14>

○ Programming Languages

C, C++, Java, PHP, Python, and MATLAB

○ Typesetting

LaTeX

Language Proficiency

○ International English Language Testing System (IELTS)

Overall band score: 6.5 (Listening: 6.5, Reading: 6.5, Speaking: 6.5, Writing: 6.0)

Education

2014–2018 **BSc.(Engineering) in Computer Science**, North East University Bangladesh, Sylhet, Bangladesh. CGPA: 3.75/4.00

○ **BSc. Thesis:** “*A Faster Decoding Technique for Huffman Codes Using Adjacent Distance Array*,” under supervision of **Dr. Ahsan Habib**

2010–2012 **Higher Secondary Certificate**, Jalalabad Cantonment Public School and College, Sylhet, Bangladesh. GPA: 5.00/5.00

2005–2010 **School Secondary Certificate**, Sylhet Govt. Pilot High School, Sylhet, Bangladesh. GPA: 5.00/5.00

Research Interest

○ Security and privacy, blockchain, trust and reputation management, artificial intelligence, machine learning, software engineering, data structure, and algorithm.

Publications and dissertations

Journal Article(s)

- **Pranta Sarker** and Mir Lutfur Rahman, “A Huffman Based Short Message Service (SMS) Compression Technique Using Adjacent Distance Array,” in *International Journal of Information and Communication Technology*. (The article has been **accepted** and entering Publication Schedule in the Journal.)
- **Pranta Sarker** and Mir Lutfur Rahman, “Method of Adjacent Distance Array Outperforms Conventional Huffman Codes to Decode Bengali Transliterated Text Swiftly,” in *International Journal of Computing and Digital Systems*, vol. 11, no. 1, pp. 595-608, January, 2022. <https://journal.uob.edu.bh/handle/123456789/4498>

Conference Proceedings

- **Pranta Sarker** and Mir Lutfur Rahman, “Introduction to Adjacent Distance Array with Huffman Principle: A New Encoding and Decoding Technique for Transliteration Based Bengali Text Compression,” *Progress in Advanced Computing and Intelligent Engineering*, Advances in Intelligent Systems and Computing, vol 1299. Springer, Singapore, 2021, pp. 543–555. https://doi.org/10.1007/978-981-33-4299-6_45
- Mir Lutfur Rahman, **Pranta Sarker**, and Ahsan Habib, “A Faster Decoding Technique for Huffman Codes Using Adjacent Distance Array,” *Proceedings of International Joint Conference on Computational Intelligence*, Algorithms for Intelligent Systems. Springer, Singapore, 2020, pp. 309–316. https://doi.org/10.1007/978-981-15-3607-6_25

Teaching Experience

2018–Present **Lecturer**, Department of Computer Science and Engineering, North East University Bangladesh, Sylhet, Bangladesh.

Association

2022–Present **TPC reviewer**, International Journal of Computing and Digital Systems, University of Bahrain Scientific Journals. <https://journal.uob.edu.bh/handle/123456789/12?id=about>

References

- **Dr. Mohammad Shahidur Rahman**
Professor, Dept. of Computer Science and Engineering, Shahjalal University of Science and Technology, Sylhet.
Email: rahmanms@sust.edu, *Contact:* +880 1914930807
- **Dr. Ahsan Habib**
Assistant Professor, IICT, Shahjalal University of Science and Technology, Sylhet.
Email: ahabib-iict@sust.edu, *Contact:* +880 1915796886