

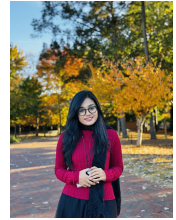
Saima Afrin

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Education

- 2022 – Present **PhD Candidate** in Computer Science, William & Mary
Research Focus: *Green AI for Software Engineering*
- 2015 – 2019 **B.Sc. Computer Science and Engineering** in Daffodil International University, Bangladesh.

Research Publications (Ph.D.)

- 1 S. Afrin, J. Call, K.-N. Nguyen, O. Chaparro, and A. Mastropaolo, “Resource-efficient & effective code summarization,” in *2025 IEEE/ACM Second International Conference on AI Foundation Models and Software Engineering (Forge)*, IEEE, 2025, pp. 224–235.
- 2 A. Giagnorio, A. Mastropaolo, S. Afrin, M. Di Penta, and G. Bavota, “Quantizing large language models for code generation: A differentiated replication,” *arXiv preprint arXiv:2503.07103*, 2025.
- 3 M. Z. Haque, S. Afrin, and A. Mastropaolo, “A systematic literature review of parameter-efficient fine-tuning for large code models,” *arXiv preprint arXiv:2504.21569*, 2025.
- 4 Y. Gong, A. Tarafder, S. Afrin, and P. Kumar, “Single-gpu gnn systems: Traps and pitfalls,” *arXiv preprint arXiv:2402.03548*, 2024.




Research Publications (Prior)

- 1 S. Afrin, F. J. M. Shamrat, T. I. Nibir, *et al.*, “Supervised machine learning based liver disease prediction approach with lasso feature selection,” *Bulletin of Electrical Engineering and Informatics*, vol. 10, no. 6, pp. 3369–3376, 2021.
- 2 S. Chakraborty, F. J. M. Shamrat, S. Afrin, S. Saha, I. Ahmed, and S. Thapa, “Industrial fault detection using transfer learning models,” in *2021 2nd International Conference on Smart Electronics and Communication (ICOSEC)*, IEEE, 2021, pp. 1–6.
- 3 P. Ghosh, A. Karim, S. T. Atik, S. Afrin, and M. Saifuzzaman, “Expert cancer model using supervised algorithms with a lasso selection approach,” *International Journal of Electrical and Computer Engineering*, vol. 11, no. 3, pp. 2632–2640, 2021.
- 4 P. Ghosh, F. J. M. Shamrat, S. Shultana, S. Afrin, A. A. Anjum, and A. A. Khan, “Optimization of prediction method of chronic kidney disease using machine learning algorithm,” in *2020 15th international joint symposium on artificial intelligence and natural language processing (iSAI-NLP)*, IEEE, 2020, pp. 1–6.




Employment History

- 2024 – Present **Research Assistant**, William & Mary.

Employment History (continued)



- 2022 – 2024  **Teaching Assistant**, William & Mary.
- 2019 – 2022  **Lecturer**. Department of Computer Science and Engineering, Daffodil International University, Bangladesh.
- 2018 – 2019  **Project Intern**. Bangladesh Venture Capital LTD,

Skills








- Languages  Strong reading, writing and speaking competencies for English, Bangla.
- Coding  Java, Python, R, C, C++, CUDA, \LaTeX
- Misc.  Academic research, teaching, training, consultation, and publishing.

Miscellaneous Experience

Awards and Achievements

- 2018  **Dr. Aminul Islam Scholarship**, Selected as the top candidate.
- 2015 – 2019  **Department Scholarship for Outstanding Student Performance**, Daffodil International University.

Seminars and Events

- 2022  **Volunteer, CS Symposium, Department of Computer Science** . William & Mary
- 2023  **Volunteer, CS Symposium, Department of Computer Science** . William & Mary
- 2024  **Volunteer, CS Symposium, Department of Computer Science** . William & Mary
- 2020  **Served as a Rapporteur of a technical session titled Technical Session V-Automation & Robotics** . in 4th International Joint Conference on Advances in Computational Intelligence (IJCACI 2020)
- 2019  **Attended Blockchain Research Seminar**. organized by DIU Blockchain Research and Development Lab.
-  **Performed as a judge** . for the hackathon program at the Daffodil ICT Carnival, 2019.
-  **Participated YES**. Young Entrepreneur Summit, Bangladesh, 2019.

References

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