Sharmin Ahmed

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Education

- University of Utah
Doctor of Philosophy, Computer Science
Fall 2023 - Present

- Shahjalal University of Science and Technology, Sylhet, Bangladesh
Bachelor of Science (Engg.), Computer Science and Engineering
CGPA: 3.78/4.00 | Graduation: 2021 | Class Position: 7th Out of 107 students

Research Interests

- Privacy
- Human-Computer Interaction
- Machine Learning

Skills

- Programming/Scripting Languages: (Proficient) Python, Java, C++; (Familiar) C, SQL
- Frameworks and tools: NumPy, SciPy, Scikit-Learn, Pandas

Publication

- Assessing Correlation Between Night-Time Light and Road Infrastructure: An Empirical Study (Accepted at 11th International Conference on Geographic Information Science - GIScience 2021 Short Paper Proceedings)
DOI: https://doi.org/10.25436/E27P4D

Poster

- A Remote Sensing Approach: Where to Build the Next Road? (Accepted at NSysS 2021. 8th International Conference on Networking, Systems and Security)

Projects

- Sentiment Analysis | Python, Jupyter Notebook
Used RNN and CNN models to predict the positivity and negativity from movie reviews. Also, a comparison among these models has been analyzed.
- Thesis Distribution System |Django, SQLite
Developed thesis/project distribution system for final-year students to match up with potential supervisors. The project has user authentication, a notification system, a supervisor preference-giving option for students, and supervisor-assigning options for the committee.
- ChitChat | Node.js, Socket, Java, MongoDB, Android Studio
A client-server chat application built using Java Socket programming where multiple clients can connect to a server and chat among themselves.

Programming Experience

- Solved 650+ problems on different online judges – Codeforces, LightOJ, UVa, Rosalind (Bioinformatics)

Work Experience

- Therap (BD) Ltd. | Software Engineer, QA July 2021 – July 2023
− Involved in Scheduling and EVV aggregation projects

Additional Relevant Courses

- Machine Learning Engineer, Nanodegree – Udacity (Through AWS Machine Learning Scholarship)
- Next Generation Tech Booster Challenge: Cybersecurity Track (Bertelsmann Scholarship)

Honors and Awards

- National Girls' Programming Contest, 2019 − 5th Place (National)| 1st Place (Sylhet Division)
- NSU Inter-University Girls' Programming Contest, 2018 − 7th Place (National)| 1st Place (Sylhet Division)
- Government Merit Scholarship, Higher Secondary School Certificate (2017 – 2020)