

Alif Azam

Shahjalal University of Science and Technology, Sylhet-3114, Bangladesh

Research Interest

HPC · Machine Learning · Computational Physics

Skills

Languages	Python, C, Bash Scripting
Packages and Libraries	NumPy, Pandas, Matplotlib, Scikit-learn, cuML
Tools	git, GitHub, CLI
Operating System	Linux, Windows

Education

B.Sc. Hons. in Physics

Shahjalal University of Science and Technology, Sylhet

January 2023-Present

Research Experience

Nonlinear Optics Laboratory

Department of Physics, SUST

December 2024 – Present

- Designed, built, and deployed a 7-node PXE-booted diskless HPC cluster independently under faculty supervision, using Slurm for resource management.
- Implementing physics simulations through parallel computing using Bash scripting with OpenMPI and OpenMP.

Publications

Conference Proceedings

1. Nripendro Biswas, Ahmed Rijvee, Munaem Ahmed Mahdi, **Alif Azam**, Md. Takoat Hossain, “*BSER – Bengali Speech Emotion Recognition using MFCC Features Based on SUBESCO and BanglaSER: A Comparative Study of Machine Learning Models.*” Proceedings of the 8th International Conference on Engineering Research, Innovation and Education (ICERIE 2025), Atlantis Press. DOI: 10.2991/978-94-6463-884-4_77

Presentations

1. “*BSER - Bengali Speech Emotion Recognition using MFCC Features Based on SUBESCO and BanglaSER: A Comparative Study of Machine Learning Models*”: Nripendro Biswas, Ahmed Rijvee, Munaem Ahmed Mahdi, **Alif Azam** and Md.

Takoat Hossain. *International Conference on Engineering Research, Innovation and Education (ICERIE 2025)*.

Linguistic Skill

English(Fluent English Proficiency) · Bangla(Native Language)

Workshops/Courses

System Administration and IT Infrastructure Service (by Google)	January 2025
Introduction to Deep Learning & Neural Networks using Keras (by IBM)	December 2023
Google Digital Marketing Course	July 2021
Python Core Course (by Sololearn)	February 2020

Extra-Curricular Activities

Assistant IT Secretary, Swapnotthan, SUST	May 2024–July 2025
Media and Outreach Team, SUST Autodrive	September 2024–November 2024
Volunteer, Sylhet Region, Bangladesh Physics Olympiad	December 2023
Typist, Chemistry Haters	August 2020–November 2020

Awards/Achievements

Chess Champion, Physics Indoor Tournament 2025	July 2025
Finisher, Protiki Marathon (5Km)	July 2025
Accomplished Competitor, University Physics Competition	2023
Chess Runner-Up, Intra Department Indoor games, SUST Physics Society	December 2023
Uno Champion, Intra Department Indoor games, SUST Physics Society	December 2023

Contacts

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- GitHub: <https://github.com/azam-alif>
- ResearchGate: <https://www.researchgate.net/profile/Alif-Azam-2>