# 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

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|---|---:|
| 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

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|---|---:|
| 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

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|---|---:|
| Chess Champion, Physics Indoor Tournament 2025 | July 2025 |
| Finisher, Protiki Marathon (5Km) | July 2025 |
| 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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- LinkedIn: https://www.linkedin.com/in/alif-azam
- GitHub: https://github.com/azam-alif
- ResearchGate: https://www.researchgate.net/profile/Alif-Azam-2