

Alif Azam

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Research Interest

- HPC
- Computational Physics
- Machine Learning
- Climate Physics

Skills

- **Languages** Python, C, HTML, LaTeX, 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

• High Performance Computing Lab

Shahjalal University of Science and Technology, Sylhet

December 2024-Present

- Setting up and maintaining an HPC cluster with PXE-booted diskless compute nodes.
- Configuring and managing Linux systems using SSH, NFS, and Bash scripting.
- Developing and running parallel applications with OpenMPI and OpenMP.

Conference Presentation

- *"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 RunnerUp, Intra Department Indoor games, SUST Physics Society December 2023
- Uno Chamption, Intra Department Indoor games, SUST Physics Society December 2023