Aqueeb Anjum Sunny

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Nuclear engineering graduate skilled in neutronics research and reactor core design, with strengths in data analysis and visualization. Research interests include Gen IV reactors, fuel performance optimization, and ML applications in nuclear engineering. Motivated to contribute as an RA/TA in a fully funded U.S. postgraduate program.

Education

Military Institute of Science and Technology (MIST) — Apr 2021 - Jun 2025
Bachelor of Science in Nuclear Engineering
CGPA: 3.46 out of 4.00

Skills

Technical Skills: OpenMC, NJOY, Python (numpy, pandas, matplotlib), scikit-learn, Git, Linux, Markdown
Research Skills: Core Design, Monte Carlo Simulations, Data Analysis, Nuclear Data Processing
Portfolio: heisen23.github.io/portfolio (Core designs & simulations)

Publications

Shuddho, S. S., **Sunny, A. A.**, & Mollah, A. S. (2025). ***Neutronic Performance of Reflector Materials in Lead-Cooled Fast Reactor***. Nuclear Engineering and Design (Under Review). SSRN: https://dx.doi.org/10.2139/ssrn.5348419 — Jul 2025

Dipto, R. R., Shuddho, S. S., **Sunny, A. A.**, & Mollah, A. S. (2024). ***Analysis of Neutronics Parameters of Different Annular Fuel Using Monte Carlo Code OpenMC Utilizing JEFF-3.3 and ENDF/B-VIII.0 Nuclear Data Libraries***. Proceedings of the Energy Conference 2023: National and Global Issues (ENCON23). SSRN: https://dx.doi.org/10.2139/ssrn.4997514 — Oct 2024

Courses and Workshops

Machine Learning Crash Course, Google — Sep 2025
2025 Nuclear Engineering Summer School, MTV — Aug 2025
Computational Nuclear Science and Engineering, IAEA — Jul 2025

Professional Training

Rooppur Nuclear Power Plant, Pabna — 7-8 Feb 2024
Trained in nuclear power plant operations and safety protocols

Bangladesh Atomic Energy Centre, Dhaka — 11-15 Feb 2024
Completed Non-Destructive Testing training program

TRIGA Research Reactor, Atomic Energy Research Establishment, Savar — 5 Mar 2024
Studied research reactor operations and neutronics applications

Leadership and Outreach

MIST Nuclear Engineering Club, Senior Executive Panel — Jun 2023 - Oct 2024
Organized nuclear engineering events, including a quiz competition for 50+ students, and delivered presentations to introduce freshmen to the field.