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. Engaged in exploring ML applications in nuclear engineering, I am eager to contribute to innovative research as a research or teaching assistant 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

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

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.