Shuvo Islam Khan | B.Sc.

Dhaka – Bangladesh

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When I was a kid, I enjoyed being around computers and, as I grew up, I kept developing my relationship with them. During my time in college, I started exploring computer programming, but it was only later that I found my passion: the **Mathematics**. Today, I'm a Mathematics graduate and a lifelong learner.

Career Objective

Motivated Applied Mathematics graduate seeking an entry-level position to apply strong analytical, problem-solving, and quantitative skills in a dynamic organization, with the goal of contributing to data-driven decision-making and continuous improvement.

Work Experience

Shaheed Aman Ullah Public High School   **Noakhali, Bangladesh**
Lecturer, Mathematics Department   *2025–Present*

Education

Noakhali Science and Technology University   **Noakhali, Bangladesh**
*B.Sc. in **Applied Mathematics**, Faculty of Science*   *2020–2025*
- **Result: 3.35** *(out of 4.00)*
- Studied Calculus, Differential Equations, Discrete Mathematics, Numerical Analysis, Optimization Techniques, Method of Applied Mathematics, Mathematical Methods for Artificial Neural Networks, Mechanics (Fluid, Quantum & Classical), Mathematical Astronomy & Cosmology, and Theory of Relativity.
- Completed 13 credits in lab work using `C/C++`, `Fortran 90`, `Python`, and `Mathematica`.
- Completed 9 credits in finance-related coursework, including Mathematics for Business, Mathematical Modeling in Finance and Business, Micro and Macro Economics.

Noakhali Government College   **Noakhali, Bangladesh**
Higher Secondary School Certificate, Science   *2016–2018*
Result: 4.67 *(out of 5.00)*

Noakhali Zilla School   **Noakhali, Bangladesh**
Secondary School Certificate, Science   *2014–2016*
Result: 5.00 *(out of 5.00)*

Thesis

Undergraduate Thesis   **Noakhali, Bangladesh**
Department of Applied Mathematics, Faculty of Science, NSTU   *2025*
Title: Threshold-Based Flood Risk Alert System in Flood-Prone Regions of Bangladesh Using SARIMAX, XGBoost, and Decision Tree Classification Methods.
- Developed rainfall prediction models using SARIMAX, XGBoost, and Decision Tree Classification Methods for hydrometeorological analysis in flood-prone regions of Bangladesh.
- Implemented a threshold-based flood risk alert system to enhance early warning capabilities using data-driven classification methods.

Skills

Coding: C | C++ | Python | R | Fortran | LaTeX,...
Technical: MATLAB | Wolfram Mathematica | Microsoft Office Suite | (Word, Excel, PowerPoint)
Language Aptitude:
o **Bengali**: *Native*
o **English**: *Academic & Professional working proficiency*
Personal Strengths: Excellent communication | Leadership and Teamwork | Interpersonal relationship | Time and project management | Critical Thinking | Emotional Intelligence |
Misc.: Academic research | Teaching | Training | LaTeX typesetting and publishing |

Trainings and Workshops Attended

Introduction to Research Methodology   **Noakhali, Bangladesh**
NSTU Research Society   *02/2023 – 06/2023*

Crafting an Impactful Scientific Research Paper for Peer Review Noakhali, Bangladesh
Dept. of Applied Mathematics, NSTU   *2023*

Extracurricular Activities

Organizing Secretary, NSTU Math Club
2022-23 Executive Committee
o Spearheaded the planning and execution of International Mathematics Day 2023 celebrations, programming contests, and quiz competitions, fostering student engagement and academic collaboration..

Awards and Achievements

Winner, Programming Contest   **Noakhali, Bangladesh**
International Mathemactics Day Celebration   *2022 & 2023*
Department of Applied Mathematics, NSTU
Regional Medal Winner   **Dhaka, Bangladesh**
Bangladesh Mathematics Olympiad   *2016 & 2017*

Regional Medal Winner   **Dhaka, Bangladesh**
Bangladesh Informatics Olympiad   *2016 & 2017*

Regional Medal Winner   **Dhaka, Bangladesh**
Bangladesh Physics Olympiad   *2016 & 2017*

Primary, Junior & Secondary School Certificate Scholarship
Achieved 3rd position in JSC in the entire Noakhali district   *2010, 2014 & 2016*

References

Dr. Md. Jamal Hossain, Ph.D.
Chairman & Professor, Dept. of Applied Mathematics
Noakhali Science and Technology University,
Noakhali, Bangladesh.
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Jamal Uddin, M.Phil. (*BUET*)
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Noakhali Science and Technology University,
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