

# MD ABUL ALA MOUDUDI | Under-Graduate School Student

 Temporary: Niribili, Savar, Dhaka - 1344

 Permanent: Billah, Chalkvarunia, Joypurhat Sadar, Joypurhat - 5900

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## About

Motivated fourth-year CSE student skilled in C, Java and Python. Passionate about innovative research in Blockchain, Machine Learning and Artificial Intelligence with strong analytical abilities to contribute effectively to cutting-edge projects.

## Research Experience

**Published Paper:** Comparative Analysis Based on DeepSeek, ChatGPT, and Google Gemini: Features, Techniques, Performance, Future Prospects 

**Submitted Paper:** LSTM-Integrated Model for Sentiment Analysis Combining BoW, TF-IDF Features, and Performance Analysis of Conventional Machine Learning Models

**Ongoing Research:** Brain Tumor Detection in MRI Images using advanced Machine Learning techniques.

Developing an optimized machine learning model aimed at enhancing diagnostic accuracy in brain tumor detection

## Research Interest

- Blockchain • Cyber Security • ML • DL • AI • Cloud Computing • Health Care and Robotic Management in Health Care

## Education

**B.Sc in Computer Science & Engineering (CSE)**

Feb 2022 – Running

*Institute: National Institute of Textile Engineering & Research (NITER)*

**University: University of Dhaka | Dhaka, Bangladesh**

- CGPA: 3.62/4.0

- **Coursework:** Computer Architecture, Comparison of Learning Algorithms, Computational Theory, Fundamental Programming & OOPs, DBMS, Networking & Operating Systems, AI & Machine Learning and Software Designing

**Higher Secondary in Science**

Aug 2018 - Jan 2021

*Mohipur Hazi Mohshin Govt. College | Joypurhat, Rajshahi, Bangladesh*

**Secondary in Science**

Jan 2016 - June 2018

*Joypurhat Siddikia Kamil Model Madrasha | Joypurhat, Rajshahi, Bangladesh*

## Academic Projects

- **Talenttown Software (A DBMS & Web Application Software Project)**

Developed a robust DBMS and Web Application using MySQL for backend management and Python integrated with Selenium for automated testing scripts

- **Police Record Management System (A DBMS project storing and retrieving data in Database)**

Designed and implemented a database system using MySQL for secure record management, with Python for backend processing and Java for a user-friendly interface

- **Petuk (Smart Food Recipe App)**

Developed an Android application using Java in Android Studio, featuring advanced recipe management and search functionalities for seamless user experience

- **NCC app (A Club Management Application)**

Built a cross-platform club management application using Flutter, streamlining user registration, event scheduling, and communication processes

- **Smart Irrigation and Water Management System**

Developed an IoT-based system using ESP-32 and Arduino UNO to automate plant watering and water pump control, ensuring efficient water usage through real-time soil moisture and water level detection.

## Work Experience

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### Assistant Teacher (Science), Hazi Jan Mohammad High School

Jun 2025 - Running

An educational institution committed to nurturing scientific curiosity through quality teaching, hands-on experiments, and academic guidance

Web: [Hazi Jan Mohammad High School](#) | Email: [info@hazijanmohammadhs.edu.bd](mailto:info@hazijanmohammadhs.edu.bd)

#### Key Responsibilities:

- Conduct engaging science classes following the national curriculum with practical demonstrations and experiments.
- Assist in preparing lesson plans, assessment materials, and student progress reports in coordination with the academic team.
- Encourage scientific thinking among students through extracurricular activities such as science fairs, Olympiads, and group projects.

### Executive Director & Moderator , Research Ustad

Dec 2024 - Running

An academic platform supporting research students through writing, publishing, and tool guidance

Web: [Research Ustad](#) | Email: [info@researchustad.org](mailto:info@researchustad.org)

#### Responsibilities:

- Managed and collaborated with all research teams to ensure comprehensive support in writing, publishing, and research tools.
- Conducted workshops and courses to mentor students in higher studies preparation and research methodologies
- Managed the organization's social media presence, ensuring effective engagement and outreach to target audiences.

### Head of IT & Co-Founder, Warishaan Apparels Limited

Aug 2024 - Running

Ashulia, Savar, Dhaka, Bangladesh

A garments manufacturing company specializing in sustainable and high-quality apparel production for export markets

Web: [warishaan apparels limited](#) | Email: [director@warishaanapparels.com](mailto:director@warishaanapparels.com)

#### Responsibilities:

- Directed comprehensive IT operations, ensuring secure network protocols, efficient data management, and seamless software system integration to streamline business functions.
- Ensured network security and seamless operation of software systems while integrating advanced technologies for business growth.
- Supervised IT team operations, troubleshooting technical issues, and coordinating with other departments to achieve organizational objectives.

### Field Supervisor (TAP Application) , Mutual Trust Bank (MTB)

May 2021 - Sep 2021

Joypurhat, Rajshahi ,Bangladesh

#### Responsibilities:

1. **Team Management:** Supervised and coordinated a team of 100 individuals, ensuring efficient workflow, task delegation, and adherence to organizational goals.
2. **Operational Oversight:** Ensured smooth execution of the TAP application process, overseeing daily operations, and resolving any challenges or issues arising in the field.
3. **Guidance and Training:** Provided guidance and on-the-job training to team members, ensuring that they were well equipped to meet performance standards and comply with banking protocols.

## Co-Curricular Activities

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### Invigilator - SSC Exam 2025

April 2025 - Running

- The SSC (Secondary School Certificate) exam in Bangladesh is a public exam administered by the government, specifically by the Boards of Intermediate and Secondary Education (BISE). It's a crucial exam for students completing their

10th grade (Secondary School Certificate) and is the equivalent of O-Levels in the UK.

#### **Assistant Exam Controller - The Student Welfare Association Savar**

- Conducting 02 yearly scholarship exam where more than 4 thousand student's attendees every year.

Jan 2023 - Running

#### **Campus Ambassador - ICT Olympiad Bangladesh, Season 2**

- Bangladesh's premier and most impactful annual ICT Olympiad, bringing together students in a celebration of innovation and excellence

Aug 2024 - Running

#### **Organizing Secretary - NITER Computer Club (NCC)**

- Fosters innovation and hands-on learning in Computer Science and Engineering through workshops, competitions, and collaborative projects.

2024 - 25 Session

#### **General Member - NITER Islamic Society (NIS)**

- Organized events fostering spiritual growth and community outreach, including workshops, discussions, and charity drives, enhancing campus engagement.

2022 - Running

#### **District Admin Manager - ICT Olympiad Bangladesh , Season 1**

- Bangladesh's premier and most impactful annual ICT Olympiad, bringing together students in a celebration of innovation and excellence

Apr 2022 - Nov 2023

#### **Private Tutor**

- Providing personalized home tuition to students from Grade 4 to Grade 12.
- Subjects include Science, Physics, Chemistry, ICT, General & Higher Mathematics and English.
- Focused on conceptual understanding, exam preparation, and academic improvement.

Jun 2019 – Present

## **Skills**

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- Problem-Solving • Creative Thinking • Leadership Quality • Adaptability • Strong Communication

## **Technical Skills**

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- **Programming Languages:** C, Java, Python
- **Web Development:** HTML, CSS
- **Database Management:** MySQL
- **Version Control:** Git, GitHub
- **Development Tools:** Visual Studio, Eclipse, IntelliJ IDEA, NetBeans, PyCharm, Android Studio
- **Cloud & Virtualization:** Oracle VM, Microsoft SQL Server
- **Office Tools:** MS Word, MS PowerPoint, MS Excel, MS Power BI, Google Workspace
- **Other Skills:** Data Structures, Algorithms, Problem-Solving

## **Linguistic Proficiency**

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- English (Fluent); IELTS Band Score: 7.5 • Bangla (Native) • German (Beginner Level)

## **Awards & Prize**

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- **2<sup>nd</sup> Position:** Open Book Quiz Contest, Organized by the NITER Islamic Society 2024
- **Best Volunteer Award:** The Student Welfare Association Savar 2024
- **1<sup>st</sup> Position:** Associate Intellectual Test, Organized by BICS 2023
- **1<sup>st</sup> Position:** Islamic Quiz Contest, Organized by NITER Islamic Society 2023
- **1<sup>st</sup> Position:** Associate Intellectual Test, Organized by BICS 2022
- **DU Full Funded Scholarship:** For Private Constituent Institutions of the University of Dhaka, covering all academic tuition fees, excluding the form fill-up fees for each semester. 2022

## Workshop & Seminar

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- **WRITING RESEARCH ARTICLES AND PUBLICATIONS WORKSHOP**  
Conduct by Research and Integrated Thought Ltd. (RIT)
- **WEB APPLICATION DEVELOPMENT WORKSHOP**  
Conduct by Mr. Md Sahal, Associate Software Engineer Brain Station 23 PLC
- **Web and Software Development Seminar**  
Conduct by ANISUL ISLAM, Full Stack Trainer and Software Engineer
- **Basic IOT and Robotics Workshop**  
Conduct by Bangladesh Flying Labs

## Reference

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### **Anichur Rahamn**

Assistant Professor, Dept. of CSE  
National Institute of Textile Engineering & Research  
(NITER)  
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### **Dipanjali Kundu**

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