



MD DULAL HOSSAIN

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Summary

Graduated from Green University of Bangladesh with a strong research and technical background in AI, Machine Learning, NLP, and Blockchain. Skilled in Python, data analysis (NumPy, Pandas), and Large Language Models. Published research on blockchain-based certificate verification and contributed to projects involving AI and automation. Seeking to contribute as a Research Assistant under the HEAT Sub-Project to advance AI-driven research collaboration.

Education

Green University of Bangladesh , Purbachal American City, Kanchon 1460	<i>Oct 2021 – Sep 2025</i>
B.Sc. in Computer Science and Engineering	
• CGPA 3.60 out of 4 (Passing Years 2025)	
Moulana Saifuddin Ahiya Degree College Shahzadpur , Sirajgonj .	<i>June 2017 – May 2020</i>
Higher Secondary School Certificate (HSC)	
• GPA 4.17 out of 5 (Passing Years 2020)	
Jamirta High School Jamirta, Shahzadpur Sirajgonj.	<i>January 2012 – March 2017</i>
Secondary School Certificate (SSC)	
• GPA 4.41 out of 5 (Passing Years 2017)	

Experience

Applied Researcher	<i>October 2024 - October 2025</i>
Nixtec Systems, Bangladesh & Netherlands (Remote)	
Skills: Blockchain, Machine Learning, Deep Learning, Natural Language Processing & Large Language Models.	
Research Assistant to Professor Dr. Ahsan Habib	<i>August 2024 & Running</i>
Honored to join as Research Assistant to Prof. Dr. Md. Ahsan Habib. Excited to coordinate research, manage academic tasks, & support impactful projects while learning, growing, & contributing under his inspiring mentorship in my academic journey.	
Internship	<i>December 2024 - April 2025</i>
Wizard Software & Technology Bangladesh Ltd., Dhaka, Bangladesh (On-site)	
Skills: Automation, Artificial Intelligence, Robotic Process Automation, Data Annotation, System Design, Data Governance.	
Instructor at EduTock (AI, ML, DM & DL)	<i>June 2025 – October 2025</i>
Conducting training sessions and workshops on Artificial Intelligence, Machine Learning, Data Mining, and Deep Learning.	
Designing content, delivering hands-on projects, and mentoring learners to build real-world Python-based applications.	
Trainee (Python & Django Framework)	<i>September 2024 - April 2025</i>
GUB EDGE Digital Skills Development Program, Dhaka, Bangladesh (On-site)	
Skills: Python (Programming Language), Web Development, Software Development, Information Technology Infrastructure	
Spokesperson of GUB Transport (Lead)	<i>March 2025 - October 2025</i>
Green University of Bangladesh Transport Committee.	

Skills

PROGRAMMING LANGUAGES	Python Java HTML CSS PHP JavaScript Bash Assembly language C++ C
SOFTWARE DEVELOPMENT	Agile Methodology Scrum Methodology Waterfall Methodology Android Studio
FRAMEWORKS & LIBRARIES	React (Web Development) Matplotlib Numpy Pandas (Data Science & ML)
LANGUAGES	Mother Tongue: Bengali Academic: English Intermediate: Urdu & Hindi

Publications and Research Works

1. **Development of Blockchain-based Framework for Certificate Verification & Fraud Detection**
 - Accepted at the **7th IVPR & 12th ICIEV** (March 2025). [Linkedin Post link](#)
 - Presented at the **IEEE CS BDC Summer Symposium 2025** (July 2025) [Linkedin Post link](#).
2. **Hybrid Deep Ensemble Framework for Intelligent Intrusion Detection and Classification in Data Center Environments.** [\[Submit in STI 2025\]](#)
3. **An Intelligent Machine Learning Framework for Disease Prediction and Personalized Medical Recommendation.** [\[Submit in STI 2025\]](#)
4. **Hybrid Deep Learning and Ensemble Methods for Dependable IoT Intrusion Detection.** [\[Submit in STI 2025\]](#)
5. Joint Service Migration and Resource Allocation in Cloud Computing Using Large Language Models (LLMs). [\[Ongoing Researchs\]](#)
6. Enhancing Food Supply Chain Transparency and Efficiency through the Integration of IoT and Blockchain. [\[Ongoing Researchs\]](#)
7. Seamless 6G Connectivity: AI-Based Handover Mechanisms for Hybrid Satellite-Terrestrial Networks. [\[Ongoing Researchs\]](#)
8. A Privacy-Preserving Federated Learning Framework for Smart Healthcare Using Blockchain and zk-SNARKs. [\[Ongoing Researchs\]](#)
9. Development of 5G Surveillance Network for Maritime Border of Bangladesh. [\[Ongoing Researchs\]](#)
10. NID Verification System with Blockchain-Enabled IDS. [\[Ongoing Researchs\]](#)
11. Optimizing Real-Time Distributed Systems with Event-Driven Architectures in Edge Computing Environments. [\[Ongoing Researchs\]](#)
12. Adaptive and dynamic Blockchain Framework for Secure Data Sharing in Zero-Trust Edge Environments. [\[Ongoing Researchs\]](#)

Projects

BanglaHaaat Shopping (Full Stack E-Commerce Platform)	<i>Developed using React.js, Node.js, Express.js, Tailwind CSS, MongoDB, Redux Toolkit, Stripe, Cloudinary, Git, GitHub, VS Code & Vercel</i>
BanglaHaaat is a full-stack e-commerce platform built with React, Node.js, and MongoDB, enabling users to shop, manage products, and make secure online payments through an easy, responsive interface.	
Desktop Voice Assistant (Familiar Siri, Alexa)	<i>Developed using Python</i>
Designed an interactive system with speech recognition and text-to-speech features. Utilizes Tkinter for GUI, performing tasks like providing time, playing music, and accessing weather updates. Project GitHub link	
Intelligent Review Analyser	<i>Developed using Python</i>
The Intelligent Review Analyzer uses SVM and BERT models to classify customer reviews as positive, negative, or neutral, achieving 79% accuracy for automated sentiment analysis. Project GitHub link	
E-Commerce Website: SDM Dulal PC Shop	<i>Developed using HTML, CSS, JavaScript, PHP, and MySQL</i>
Created a robust platform with user registration, product selection, cart management, and an admin panel. Includes a unique repair service feature based on purchase history. Project GitHub link	
PET Management System	<i>Developed using HTML, CSS, JavaScript, PHP, and MySQL</i>
A web-based system to manage pet information, appointments, and medical records, developed using PHP, MySQL, and Bootstrap for IDP2 course. Project GitHub link	
Bridge Construction (Padma) - Engineering Drawing Lab Project	<i>Using AutoCad</i>
Padma Bridge project designs a 150-meter bridge section using AutoCAD for safety & connectivity. Project GitHub link	

Banking System (Familiar Nogod)

Developed using online technologies

Automated manual banking processes with functionalities for balance checking, fund transfer, transaction record maintenance. Enhances accessibility & accuracy in customer information retrieval. [Project GitHub link](#)

Group Chat Application (Familiar Whatsapp)

Developed in Java.

This is a Java-based client-server system that supports real-time messaging, image sharing, and emoji integration, providing intuitive interface using JavaFX for seamless communication between multiple users.[Project GitHub link](#)

School Management System(Familiar GUMS)

Using DBMS and Java

Provides modules for student addition, admin management, fee tracking, result processing, and staff administration. Centralized platform for organized school management. [Project GitHub link](#)

Application of Book Store(Familiar Retailer apps)

Developed using Assembly Language

Book store application with user-friendly interfaces for various genres. Demonstrates efficient inventory management and transaction processing in low-level programming. [Project GitHub link](#)

Library Management System Application With Interface.

Using Shell Scripting

This is a Bash-based command-line tool that allows users to efficiently add, find, edit, remove, and view book records, providing a simple yet functional solution for libraries. [Project GitHub link](#)

Additional Projects on GitHub

Using Multiple Languages

Beyond the listed projects, I have developed 30+ additional applications and systems. Visit my GitHub to explore hands-on work in web development, data science, machine learning, blockchain, and more. [GitHub link](#)

Extra-Curricular Activities

Latex & MS Office

Expert

Proficient in creating professional reports and documents using LaTeX.

Skilled in MS Office tools for documentation, data handling, and presentations.

Documentation or Administrative Roles (Remote)

Nixtec System, (Bangladesh & Netherlands)

Managed documents, attendance, and reports for academic activities.

Coordinated event schedules and ensured clear communication and proper documentation.

Home Tutor (English Medium)

December 2021 - October 2025

I am a home tutor specializing in English medium education.

Oxford International School Dhaka (Student), Bata Goli, Dhaka 1205

Keynote Speaker

Webinar - Cyber Existence of a Graduate's Professional Skills

Delivered a keynote on enhancing graduates' digital presence via LinkedIn, GitHub, and freelancing at an exclusive GUB webinar. [Post link](#)

Volunteer

Cyber Security and Cloud Systems

Organized Cyber Security seminar, ensuring smooth coordination and engagement.

Volunteer (Anchor)

Closing Ceremony GUB EDGE Program

Hosted the closing ceremony, coordinated sessions, and engaged the audience as Anchor for GUB's

Enhancing Digital Government and Economy (EDGE) Program final event.

Volunteer (Anchor)

Unlock your AI potential with Agent X!

Hosted the closing ceremony, coordinated sessions, and engaged the audience as Anchor for GUB's

Enhancing Digital Government and Economy (EDGE) Program final event.

Bangladesh Scouts (Member)

June 2017 – May 2019

Moulana Saifuddin Ahiya Degree College, Shahzadpur, Sirajgonj

Event Organizer (Leader)

January 2018 & January 2019

Led the event organization at Moulana Saifuddin Ahiya Degree College, coordinating teams, managing logistics, and ensuring the successful execution of college programs and activities.

Photography

Photography captures moments and emotions, freezing time into evocative images.

Honors or Awards and Achievements

Academic Excellence Awards From GUB 01

Fall 2023

Received the Academic Excellence Award from Green University of Bangladesh (Fall 2023) for outstanding performance with a semester GPA of 3.80, qualifying for the prestigious Dean's Certificate.

Academic Excellence Awards From GUB 02

Spring 2025

Received the Academic Excellence Award from Green University of Bangladesh (Spring 2025) for exceptional academic performance with a semester GPA of 3.91, earning eligibility for the Vice Chancellor's Certificate.

Academic Excellence Awards From GUB 03

Summer 2025

Received the Academic Excellence Award from Green University of Bangladesh (Summer 2025) for outstanding academic achievement with a semester GPA of 3.90, qualifying for the esteemed Vice Chancellor's Certificate.

AI+ Prompt Engineer™: Level 1

AI CERTs™ Learner Portal

Earned AI+ Prompt Engineer™: Level 1 certification from AI CERTs™ Learner Portal, demonstrating foundational skills in prompt engineering for AI model interaction and optimization.

Prompting with Microsoft Copilot

Microsoft

Gained hands-on experience in Prompting with Microsoft Copilot, learning to generate, refine, and optimize AI-powered outputs for productivity, content creation, and task automation.

Certification - Automation Anywhere (Essentials Certification)

April 2025

Completed the Essentials Certification covering the fundamentals of Robotic Process Automation (RPA) using Automation Anywhere.

Champion

January 2019

Badminton Tournament Rajshahi.

Runner up

February 2018

Badminton Tournament Shahzadpur Upazila, Sirajgonj

References

Professor Dr. Md. Ahsan Habib

Chairperson & Professor, Department of CSE, GUB
Director, Center of Continuing Education, GUB
Immediate Past Chair, IEEE CS BDC
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Relation with Applicant: Research Supervisor

Dr. Muhammad Abul Hasan

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Relation with Applicant: Course Instructor