

# ABDULLAH IBNE HANIF AREAN

Dhaka, Bangladesh

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## CAREER SUMMARY

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I am a researcher specializing in artificial intelligence with a focus on natural language processing and 3D computer vision, driven by a passion for developing intelligent systems that create real-world impact. Alongside my academic and technical pursuits, I have worked with several non-profit organizations to promote technology education in Bangladesh, directly impacting over two thousand individuals mostly student of DU, by introducing them to the transformative power of technology. My career is rooted in a commitment to both scientific advancement and social good, and I aspire to continue contributing to the field of AI through research, innovation, and inclusive outreach.

## EDUCATION

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### University of Dhaka

Januray 2020 – June 2025

*B.Sc. in Computer Science & Engineering - CGPA - 3.90/4.00 (Top of Class)*

*Dhaka, Bangladesh*

### Rajuk Uttara Model College

June 2017 – July 2019

*Higher Secondary School Certificate (Science) - GPA - 5.00/5.00*

*Dhaka, Bangladesh*

## HONORS & AWARDS

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- 2025: Dean's Award For Academic Excellence, Faculty of Engineering, University of Dhaka
- 2024: Champion, Inter University NLP Idea Competition, Linguistics Department, University of Dhaka
- 2024: 1st Runners Up, Bhashamul: Inter University NLP Competition, United International University
- 2024: 2nd Runners Up, DL Enigma 1.0: Inter University DL Competition, Shahjalal University of Science and Technology
- 2024: 7th Position, Code Samurai 2024 National Hackathon Final Round, University of Dhaka
- 2022: Finalist, Code Samurai 2022 National Hackathon Final Round, University of Dhaka
- 2022: Best Volunteer Award, Dhaka University IT Society Annual Function, University of Dhaka
- 2019: 6th Position, Physics Olympiad Dhaka North Regional Round
- 2015: 12th Position, Physics Olympiad National Round

## WORK EXPERIENCE

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### The KOW Company

June 2025 – Present

*Junior AI Researcher — On-site*

*Dhaka, Bangladesh*

- Leveraging neural reconstruction and depth estimation to build scalable, intelligent vision systems.
- Leading research on specialized VLMs for electrical and logical circuit understanding, addressing dataset and modeling limitations.
- Integrating explainable AI principles to address black box problems and enable deployment in safety-critical domains.

### Cognitive Agents And Interaction Lab, CSE, University of Dhaka

January 2023 – May 2025

*Research Assistant*

*Dhaka, Bangladesh*

- Collected Multiple Datasets in Bangla Language spanning more than 50 million Bangla Sentences.
- Building Multiple LLM based models for Bangla Summarization, Translation and other tasks.

## PUBLICATIONS

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### SOMAJGYAAN: Evaluating LLMs on Bangla Culture and Social Knowledge

*AAACL-IJCNLP 2025 Findings — OpenReview*

Oct 2025

**Authors:** Fariha Anjum Shifa, Muhtasim Ibteda Shochcho, **Abdullah Ibne Hanif Arean**, Mohammad Ashfaq Ur Rahman, Akm Moshir Rahman Mazumder, Ahaj Mahhin Faiak, Md Fahim, M Ashraful Amin, Amin Ahsan Ali, AKMMAHBUBUR RAHMAN

- Introduces a 4,234-question Bangla multiple-choice benchmark spanning history, economics, geography, politics, and law.
- Benchmarks open-source vs. closed-source LLMs; *LoRA* fine-tuning narrows gaps for open models but gaps remain.
- Highlights non-STEM cultural and social knowledge coverage unique among existing Bangla datasets.

## PROJECTS

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### 1. **PressWiz** | Web Application, Presentation, Thesis

June 2024 – March 2025

- Engineered a web-based news aggregation platform that ingests, normalizes, and summarizes Bangla articles from multiple publishers in real time.
- Designed and implemented *LongBanSum*, a T5-based transformer with combined local-global attention (TGlobal) optimized for long-sequence Bangla summarization.
- Curated the **MASBA** corpus of 669,699 articles with multi-level human-written summaries, ensuring diverse, high-quality data for model training.

### 2. **Climate Relief** | Presentation, GitHub

July 2022 – November 2022

- Developed an Android application in Java to streamline disaster relief distribution and resource tracking in affected regions.
- Designed a secure backend API and SQLite database schema to ensure data integrity, real-time updates, and offline resilience.

## TECHNICAL SKILLS

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**Languages:** C, C++, Java, Python, JavaScript, Dart

**Frameworks & Libraries:** React, Node.js, Flutter, Spring Boot, PyTorch, TensorFlow

**Databases:** MongoDB, PostgreSQL, SQLite

**Computer Science Fundamentals:** OOP, OS, Algorithms, Data Structures, Complexity Analysis

**Systems & Architecture:** Distributed Systems, Multi-tiered Systems, RDBMS Design, System Scalability

**AI & Machine Learning:** ML (Supervised/Unsupervised, EDA, Feature Engineering), Deep Learning (NLP, CV, Transformers), Generative AI (GPT, BERT, RAG, Fine-tuning, Vector DBs), Agent Systems (LangChain, LangGraph, Orchestration)

## EXTRACURRICULAR

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### **Dhaka University IT Society (DUIITS)**

May 2025 – Present

*President*

*Dhaka, Bangladesh*

- Conducted sessions on PC building and basic computing, mastering Google search for academic excellence, and cybersecurity awareness for women.
- Recipient of the Best Volunteer Award in 2022 and 2024 for exemplary contributions.
- Contributed actively to DUIITS' mission of promoting IT education, organizing events, workshops, and fostering collaboration among students and professionals.

### **Ministry of Health and Family Welfare, People's Republic of Bangladesh** August 2024 – March 2025

*Member, Health-Related Subcommittee*

*Dhaka, Bangladesh*

- Collected and analyzed data on casualties and martyrs from the July Revolution, contributing to historical records and policy development collaborating with MIS.
- Student representative of Shaheed Suhrawardy Medical College and Led the Help Center of the July Shaheed Smrity Foundation

### **IEEE Computer Society**

January 2024 – February 2025

*Ex-Chair, IEEE CS SB DU EXCOM 2024*

*Dhaka, Bangladesh*

- Leading the IEEE Computer Society Student Branch Executive Committee (Excom) at Dhaka University for the year 2024.
- Coordinating with the full committee to organize events, workshops, and seminars focused on science and technology.
- Promoting IEEE Computer Society initiatives and fostering collaboration among students and professionals.

## REFERENCES

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- Prof. Dr. Md. Mamun-Or-Rashid , Professor, Department of Computer Science and Engineering, University of Dhaka.  
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- Dr. Md Mosaddek Khan, Associate Professor, Department of Computer Science and Engineering, University of Dhaka.  
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