

Mohammed Rakibul Hasan

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RESEARCH INTERESTS

My interests lie in the realm of **information retrieval**, **AI fairness**, **big data**, and **NLP**. I focus on developing ethical and transparent AI solutions that enhance data integrity and explainability.

EDUCATION

North South University, Dhaka, Bangladesh May 2019 – July 2023
B.S. in Computer Science and Engineering
GPA: 3.42 (89%)
Relevant Courses: Artificial Intelligence, Machine Learning, Database Management System.

WORK EXPERIENCE

Research and Development Assistant Aug 2023 – Mar 2024
Supervisor: Dr. Razib Hayat Khan
Developed an application for families of children with Autism Spectrum Disorder, identifying key gaps and creating a data-driven platform that delivers tailored support and services, with a strong emphasis on data accessibility to improve outcomes. [GitHub]

PUBLICATIONS

1. **Mohammed Rakibul Hasan**, Md Shawmoon Azad, Arabindu Das Himu, Raiyan Rahman (2024). *Towards Accurate AI-Driven Historical QA: A Retrieval-Augmented Model for Bangladeshi History*. [To be submitted] [GitHub]
2. Raiyan Rahman, Md Shawmoon Azad, **Mohammed Rakibul Hasan**, Syed Emad Uddin Shubha, M.R.C. Mahdy (2023). *Enhancing the security of image transmission in Quantum era: A Chaos-Assisted QKD Approach using entanglement*. [Under review at IET Quantum Communication] [arXiv]

PROJECTS

QuizCrafter AI March 2025
LLM-powered educational tool that transforms any PDF into quizzes, summaries, and scored feedback using LLaMA 3 and Spring Boot backend. Features include real-time evaluation.
[Video] [Live Demo] [GitHub]

SKILLS

Programming Languages Python, Java
Frameworks PyTorch, LangChain, Spring Boot, Apache Spark
Libraries Pandas, Matplotlib, NumPy, Matlab

WORKSHOPS AND CERTIFICATIONS

Workshop: Rumors, Fact-checking and Trusted Website Selection 2021
[News Article]
IELTS Academic Band Score: 7

HONORS AND AWARDS

Top 10 out of 102 teams – Innovation Challenge Season 13, Capstone 2023

SERVICE AND OUTREACH

Right To Peace, Executive Member – IT March 2021 – March 2023
Contributed to youth-focused programs that promote digital inclusion and ethical awareness, strengthening my commitment to socially responsible and transparent information systems. [Visit]