

MD EHSANUL HAQUE

AI Developer | LLM Fine-Tuning & RL | ML & Data Science | Backend Technologies | Researcher | Data Analyst

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Technically rigorous Analyst candidate with a proven aptitude for engineering complex logic systems. Proficient in manipulating high-dimensional data through advanced Reinforcement Learning and AI development. Adept at transforming raw technical requirements into scalable solutions using Java, Python, and C#. Capitalizing on a strong background in Android and game simulation to bring a unique, problem-solving perspective to data visualization, pipeline automation, and statistical analysis.

EDUCATION

Bachelor of Science in Computer Science & Engineering, 2022 – Ongoing
American International University-Bangladesh
CGPA 3.89 / 4.00

HSC, Govt Azizul Haque College 2019 – 2021
Science
GPA 5.00 / 5.00

EXPERIENCE

1st runner up at AIUB CS Fest 2024 (App Showcasing) 04/2024
AIUB Computer Club
American International University-Bangladesh
Won 1st Runner-Up at AIUB CS Fest 2024 (App Showcasing) by creating a simple game, while meeting new people, learning new skills, and enjoying the competitive experience.

Awards

AIUB Deans's List Honors, FST,3 Times, 26/06/2023
American International University-Bangladesh

AIUB Academic Scholarship, *American International University-Bangladesh* 01/08/2023

PUBLICATIONS

Beyond NER: A Comparative Benchmark of Medical BERTS for Multi-Label Adverse Drug Reaction Classification on the PsyTAR Dataset, 11/2025
International Conference on Intelligent Data Analysis and Applications (IDAA 2025)
This work explores fine-tuning large language models (LLMs) and domain-specific Medical BERT architectures for multi-label adverse drug reaction (ADR) classification beyond traditional named entity recognition (NER). Using the PsyTAR dataset, we present a comparative benchmark analyzing performance, generalization, and clinical relevance. This study will be published as a book chapter with Taylor & Francis.

Unfolding Emerging Issues in the Context of Changing Climatic Scenario,

09/2022

2nd South Asian Conference

Conducted statistical analysis to study emerging issues under changing climatic scenarios, enhancing data interpretation and analytical skills.

PROJECTS

BDNewsPaperScraper, Python ↗

2024

Developed an optimized, cross-platform web scraping system using Python and Scrapy to collect and clean news articles from major Bangladeshi newspapers. Implemented high-performance batch runners, date-range filtering, logging, monitoring, and automated data export to Excel/CSV with a unified database design.

Pharmacy Management System, C# ↗

2024

Developed a C#-based Pharmacy Management System with an MSSQL database and Guna UI framework, enabling efficient management of medicines, sales, inventory, and user records through a responsive and user-friendly interface.

Student Management System ↗

2023

Developed a Java-based Student Management System using MySQL, implementing MVC architecture, DAO layer, connection pooling, and configuration management. Ensured system reliability with JUnit 5 testing and optimized performance through efficient database handling and multithreading.

Hotel Management System, Java ↗

2023

Developed a Java-based hotel management system applying object-oriented programming principles, featuring room management, check-in/check-out processes, user interfaces, and digital payment integration.

Programming Language

- Java
- MongoDB
- Kotlin
- MySQL
- Python
- PostgreSQL
- C++
- C

Soft Skills

- Quick Learner
- Adaptability and Flexibility
- Leadership
- Typing Speed
- Teamwork and Collaboration
- Time Management

EXTRACURRICULAR ACTIVITIES

American Space, General Member

10/2022 – Present

General Member of American Spaces, an open-access learning and gathering platform that promotes interaction between local communities and the United States, where I continuously learn new skills and ideas.

References

NUZHAT TABASSUM, ASSISTANT PROFESSOR OF DEPARTMENT OF COMPUTER SCIENCE,
American International University-Bangladesh
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SHAIKAT DAS JOY, LECTURER OF DEPARTMENT OF COMPUTER SCIENCE,
American International University-Bangladesh
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