

# 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

<b>Bachelor of Science in Computer Science &amp; Engineering,</b> <i>American International University-Bangladesh</i> CGPA 3.89 / 4.00	2022 – Ongoing
<b>HSC, Govt Azizul Haque College</b> Science GPA 5.00 / 5.00	2019 – 2021

## EXPERIENCE

<b>1st runner up at AIUB CS Fest 2024 (App Showcasing)</b> AIUB Computer Club <i>American International University-Bangladesh</i> 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.	04/2024
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## Awards

<b>AIUB Deans's List Honors, FST,3 Times,</b> <i>American International University-Bangladesh</i>	26/06/2023
<b>AIUB Academic Scholarship,</b> <i>American International University-Bangladesh</i>	01/08/2023

## PUBLICATIONS

<b>Beyond NER: A Comparative Benchmark of Medical BERTS for Multi-Label Adverse Drug Reaction Classification on the PsyTAR Dataset,</b> <i>International Conference on Intelligent Data Analysis and Applications (IDAA 2025)</i> 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.	11/2025
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Unfolding Emerging Issues in the Context of Changing Climatic Scenario,  
2nd South Asian Conference

09/2022

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

PROJECTS

<b>BDNewsPaperScraper, Python</b>	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.	
<b>Pharmacy Management System, C#</b>	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.	
<b>Student Management System</b>	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.	
<b>Hotel Management System, Java</b>	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    | • Kotlin | • Python     | • C++ |
| • MongoDB | • MySQL  | • PostgreSQL | • C   |

Soft Skills

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

EXTRACURRICULAR ACTIVITIES

<b>American Space, General Member</b>	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

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**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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