

Nafiz Imtiaz

Queens, NY

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PROFILE SUMMARY

AI researcher and applied data scientist specializing in Educational Data Mining (EDM), learning analytics, and fairness-aware machine learning. My research focuses on developing open-source, equity-centered tools, including digital biomarkers for early screening of learning disabilities and transparent Early Warning Systems (EWS). Published researcher with a Best Paper Award (IEEE CS BDC Symposium 2024) and peer-reviewed publications in education and business analytics. Master of Science in Business Analytics (GPA 3.91), Montclair State University.

EDUCATION

- **MS in Business Analytics**, Montclair State University, Montclair, NJ, USA.
- **BBA in Management Information System (MIS)**, North South University, Dhaka, Bangladesh

WORK EXPERIENCE

Business Analyst

Bits and Binaries, Inc, Irving, TX

February 2026 – Present

- Brainstorm and create customer centric local LLM tools for forecasting sales and reducing lost customer.
- Develop, optimize, and maintain complex SQL queries to extract, transform, validate, and predict missing data matrix from multiple relational data sources.
- Partner with business stakeholders to elicit, document, and refine reporting and analytics requirements using structured requirement-gathering techniques.
- Report User Acceptance Testing (UAT) by validating data logic, resolving discrepancies, and troubleshooting reporting issues.

Business Analyst

DCITM LLC, Richmond, VA

October 2025 – February 2026

- Conducted business analysis by gathering requirements, preparing reports, and assisting in various product launching.
- Supported the development of AI Automation of regular internal tasks, including data stacking and data organization for faster and more efficient result.
- Supported documentation, workflow evaluation, visualization, and project communication.
- Conducted applied research and agentic AI architectures and their applications in automated decision-making pipelines, synthesizing findings from academic literature into actionable internal reports for AI-driven product development.

Consultant Business Analyst

NetCom Learning Global, Manhattan, NY

February 2025 – October 2025

- Co-developed “N+”, an AI-powered adaptive learning application designed to address gaps in AI literacy in professional and academic markets, collaborating cross-functionally on product design, data requirements, and analytics integration.
- Developed visualizations for comprehensive analyses of operations, sales, and stakeholder requirements to support data-driven decision-making.
- Analyzed marketing datasets and documents using Excel pivot tables and dashboards, identifying patterns, trends, and actionable insights.
- Consulted with local professionals and analysed trigger points to make customized learning solution.

Project Research Assistant

BacBon Limited, Dhaka, Bangladesh

January 2019 – March 2022

- Taught English to Japanese High School Students remotely using a platform called SLC, in collaboration with one of their biggest publishing company Shinkoshuppansha Keirinkan Co., Ltd.
- Collaborated with Asian Development Bank (ADB) to develop study material in Math and English for junior high school students
- Collaborated and developed with software teams using agile methodologies to optimize platform

- performance and enhance user experience for “BacBon School” and “BacBon Tutors.”
- Oversaw marketing strategies and content creation to boost user engagement, reviewing hundreds of marketing materials and audiovisual content.
- Proposed innovative ideas to help reduce marketing expenditure and facilitated seamless international collaboration through reviewing key documents.

ACADEMIC PROJECTS

Simulation-Based Adaptive Learning Analytics (ALA) Framework

Montclair State University, Feliciano School of Business, Montclair, NJ

April 2025

- Developed and documented a simulation-based ALA framework using secondary datasets and computational modeling of community-college enrollment scenarios in collaboration with *Illinois State University, Normal, IL*
- Applied predictive modeling (logistic regression, random forest, gradient boosting) to forecast student completion, retention, and workforce readiness.
- Simulation projections showed adaptive pathways could increase program completion by 18%, raise retention by 15%, and improve workforce-readiness alignment by 12% compared to static curricula.
- Demonstrated that embedding adaptive analytics into existing LMS infrastructure enables early identification of at-risk learners without costly curriculum redesign.

Process Mining with Celonis

Montclair State University, Feliciano School of Business, Montclair, NJ

December 2024

- Collaborated on a team to analyze and redesign a complex business process with Celonis software. Identified structural inefficiencies and implemented process changes, enabling concurrency and improved workflows.
- Developed insights for process optimization to streamline operations and enhance decision-making capacities.
- Got certified by Celonis Academy on “Academic Process Mining Fundamentals.”

CONFERENCE AND AWARDS

IEE CS BDC Symposium 2024 (Best Paper Award)

Dhaka, Bangladesh

November 2024

- Optimizing Stroke Prediction Models for Real-World Application: Tackling Data Imbalance Without Synthetic Samples

LEADERSHIP EXPERIENCE

LAMP (Learn, Act & Make Program)

Tokyo, Japan

February 2019

- Served as a LAMP young leader, working with other participants to solve socio-economic issues, including market penetration and customer satisfaction challenges for entrepreneurs.
- Represented Bangladesh in presentations with social entrepreneurs and participated in volunteer activities.
- Engaged with policy experts to learn and develop a forward-thinking mindset to come up with unique solutions for different problems.

PUBLICATIONS

[1] Zannat, Farzana and Kundu, Tama and Tohfa, Rebeka Islam and Imtiaz, Nafiz and Mahmud, Shadman, Data-Driven Dashboards for Enhancing Investor Reporting Transparency in American Capital Markets (January 08, 2026).

[2] Nafiz Imtiaz, Farzana Zannat, Sadia Ahmed, Md Asif Hasan, & Shadman Mahmud. (2025). Leveraging AI for Data-Driven Decision Making and Automation in the USA Education Sector. *Journal of Economics, Management & Business Administration*, 4(1), 87–106.

[3] Imtiaz, N., Zannat, F., Vengaladas, M. K., Mahmud, S., & Hasan, M. A. (2025). Transforming Business Analytics: The Impact of Machine Learning on Performance Prediction in US financial sectors. *Journal of Business Insight and Innovation*, 4(1), 61–72.

[4] Imtiaz, N., Karim, M. Z. (2023). "Embracing Data-Driven Process Optimization to Highly Transform

Instructional Administration in Higher Education Institutions", Business and Social Sciences, 1(1),1-8,10399
[5] Choudhury, P., Imtiaz, N. (2020). "Overcoming Data Excess to Improve Decision-Making and Information Systems Plans for Organizational Performance", Journal of Primeasia, 1(3),1-7,10403

Google Scholar : <https://scholar.google.com/citations?user=1Bub0coAAAAJ&hl=en>