

Arifur Rahman

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Professional Summary

Business Analyst and Researcher with over 8 years of professional experience and 4 years of specialization in artificial intelligence, data analytics, and predictive modeling. Authored multiple reviewed journal articles addressing critical challenges in sustainability, economic innovation, and technological advancement. Demonstrated expertise in designing AI-driven solutions, building big data systems, and advancing research initiatives that align with U.S. national priorities in energy optimization, resource management, and economic development.

Professional Experience

Business Analyst (Remote, OPT), TAAS Services, LLC [🔗](#) 05/2025 – present | Los Angeles, CA, USA

- Began as a volunteer during a 3-month unpaid OPT period to support analytics initiatives.
- Built predictive models and dashboards using Python, SQL, Power BI, and Tableau.
- Supported AI-driven solutions to improve business processes and decision-making.

Research Assistant (Remote) 06/2024 – present | Dhaka, Bangladesh

Advanced Machine Intelligence Research Lab (AMIRL) [🔗](#)

- Volunteered to support AI-driven research in business, energy, and healthcare
- Contributed to model development, optimization, and peer-reviewed publications.

Associate Business Analyst (MBA CPT), Mainwins Inc. [🔗](#) 09/2024 – 12/2024 | Grapevine, TX, USA

- Leveraged data analytics to identify trends, optimize operations, and boost revenue.
- Improved efficiency by streamlining processes and reducing costs.
- Collaborated cross-functionally to align strategies and implement solutions.

Restaurant General Manager 11/2020 – 12/2022 | Dhaka, Bangladesh

Pizza Hut BD, Transcom Foods Limited [🔗](#)

- Directed full-scale operations using predictive analytics to optimize labor, inventory, and reduce costs.
- Reduced waste and increased profitability through trend analysis and inventory forecasting models.
- Managed P&L and budgeting with real-time performance metrics to drive financial growth.
- Leveraged NPS and customer feedback data to implement targeted service improvements.
- Developed and enforced KPI systems to monitor delivery accuracy, service quality, and team productivity.

Assistant Restaurant Manager 07/2019 – 11/2020 | Dhaka, Bangladesh

Pizza Hut BD, Transcom Foods Limited [🔗](#)

- Led operations and staff training using real-time service and efficiency metrics.
- Controlled costs by analyzing labor, sales, and inventory data to drive profitability.
- Tracked KPIs to support RGM in executing strategies and achieving performance targets.

Shift Manager, Pizza Hut BD, Transcom Foods Limited [🔗](#) 07/2017 – 07/2019 | Dhaka, Bangladesh

Supervised operations, managed staff, and ensured customer satisfaction and quality.

Team Member, Pizza Hut BD, Transcom Foods Limited [🔗](#) 12/2014 – 06/2017 | Dhaka, Bangladesh

Delivered customer service, prepared food, and upheld cleanliness and safety standards.

Education

MBA in Business Analytics, International American University [🔗](#) 01/2023 – 01/2025 | Los Angeles, USA
CGPA- 3.93/4.00

MBA in Management, *National University* [🔗](#)
CGPA- 3.31/4.00

08/2019 – 12/2022 | Dhaka, Bangladesh

BBA in Management, *National University*
CGPA- 3.08/4.00

04/2014 – 09/2018 | Dhaka, Bangladesh

Skills

- **Languages & Programming:** Python, R, SQL, Java
- **Databases & ETL:** MySQL, SQL Server, T-SQL, SSIS
- **Visualization & BI:** Power BI, Tableau, Excel, Plotly
- **Tools & Ops:** Git, Jira, Kibana, PySpark, ETL Pipelines
- **ML & Analytics:** TensorFlow, Scikit-learn, AutoML, Pandas, NumPy
- **Data & Cloud:** AWS (S3, EMR, Glue), Hadoop, Spark, Kafka, Airflow
- **Business Strategy:** Optimization & Modeling, P&L, Data-Driven Decision Making, Team Leadership

Publications

FuseAttenX: Leveraging Attention-Enhanced Deep Learning for Business Strategy Optimization , <i>IEEE 4th International Conference on Computing and Machine Intelligence (ICMI 2025)</i> , Central Michigan University (CMU), Michigan, USA Presented, certified, and accepted for publication (forthcoming)	04/06/2025
A systematic review of AI-driven business models for advancing Sustainable Development Goals 🔗 <i>Elsevier</i>	10/23/2025
Multilingual sentiment analysis in restaurant reviews using aspect focused learning 🔗 <i>Scientific Reports</i>	08/04/2025
A Physics-Guided Bayesian Neural Network for Sensor Fault Detection in Wind Turbines 🔗 <i>IEEE Open Journal of Computer Society</i>	06/10/2025
Intelligent Streetlight Control System Using Machine Learning Algorithms for Enhanced Energy Optimization in Smart Cities 🔗 <i>Journal of Ecohumanism</i>	05/08/2025
Optimizing Energy Consumption Patterns in Southern California: An AI-Driven Approach to Sustainable Resource Management <i>Journal of Ecohumanism</i>	01/25/2025
Explainable AI and Machine Learning Model for California House Price Predictions: Intelligent Model for Homebuyers and Policymakers 🔗 <i>Journal of Business and Management Studies</i>	09/14/2024
Optimizing Sustainable Supply Chains: Integrating Environmental Concerns and Carbon Footprint Reduction through AI-Enhanced Decision-Making in the USA 🔗 <i>Journal of Economics, Finance and Accounting Studies</i>	08/21/2024
Machine learning and network analysis for financial crime detection: Mapping and identifying illicit transaction patterns in global black money transactions 🔗 <i>Gulf Journal of Advance Business Research</i>	12/11/2024
Seismic Activity Analysis in California: Patterns, Trends, and Predictive Modeling 🔗 <i>Journal of Computer Science and Technology Studies</i>	11/07/2024

Predictive Modeling of Water Quality and Sewage Systems: A Comparative Analysis and Economic Impact Assessment Using Machine Learning ↗ <i>In Library, Google Scholar</i>	11/27/2024
AI-Driven Predictive Modeling of US Economic Trends: Insights and Innovations ↗ <i>Journal of Humanities and Social Sciences Studies</i>	10/04/2024
Environmental and Socio-Economic Impact Assessment of Renewable Energy Using Machine Learning Models ↗ <i>Journal of Economics, Finance and Accounting Studies</i>	10/18/2024
Machine Learning for Real-Time Disaster Response and Recovery in the US ↗ <i>International Journal of Machine Learning Research in Cybersecurity and Artificial Intelligence</i>	09/15/2023
Combating Cybersecurity Threats in the US Using Artificial Intelligence ↗ <i>International Journal of Machine Learning Research in Cybersecurity and Artificial Intelligence</i>	12/22/2023
Predictive Analytics for Healthcare: Improving Patient Outcomes in the US through Machine Learning ↗ <i>Revista de Inteligencia Artificial en Medicina</i>	11/21/2023

Research Focus & Impact

265 citations on Google Scholar | 2 more Q1-journal papers under review for Publication | IEEE Reviewer |
Focuses on AI and big data to optimize energy use, grid efficiency, and sustainable resource management; supports U.S. policy in renewable energy and environmental impact.

Patents and Copyrights

Blockchain and AI-based Data Processing Device ↗ <i>Patent No-6416486, Intellectual Property Office, UK</i>	01/2025
Machine Learning Advancements: Pioneering Applications in Computer ↗ <i>Canadian Copyright Database , Registration Number-1231669</i>	03/2025

Awards

Best Restaurant General Manager, Pizza Hut Bangladesh ↗ Awarded by Transcom Foods Ltd. For the highest sales through exceptional leadership and operational excellence.	01/14/2023
Regional Champion ↗ , <i>Pizza Hut FOTP Championship, Y.R.I</i> Regional Champion, Pizza Hut Bangladesh by Transcom Food Ltd. to represent the brand in the South Asia region, showcasing product expertise and brand excellence on an international platform.	06/02/2022
Best Debater, Inter-Department Debate Fest 2017 ↗ <i>Tejgaon College Debating Club, Tejgaon College, Dhaka, Bangladesh</i>	09/21/2017

Languages

- English, Bengali, Hindi, Urdu

Affiliations and Certifications

Editorial Board Member [!\[\]\(ce446959e8e277ae6a5e0cecf0aa59c5_img.jpg\)](#)

Journal of Environmental and Agricultural Studies

Member

Institute of Electrical and Electronics Engineers (IEEE), Association for Computing Machinery (ACM), Association for the Advancement of Artificial Intelligence (AAAI), The International Society for Data Science and Analytics (ISDSA)

Reviewer

IEEE Journals

IT Support Technical

BASIS Institute of Technology & Management Limited (BITM) | Certificate- 9/ITST/DHK-12/0231

Introductions to Statistics

Stanford University (Coursera,2025)

Introductions to Machine Learning [!\[\]\(0b26ca95b2506f3d48aafc7555f0ad20_img.jpg\)](#)

Microsoft (2025)