

Analytical professional with a background in data science, quantitative modeling, and adversarial analysis. Skilled in developing predictive models, evaluating system robustness, and transforming complex datasets into actionable insights. Seeking to apply data-driven methods to optimize operational outcomes.

SKILLS

Tools and Languages	Python, SQL, Git, Databricks, PySpark, Jupyter, Cloud Analytics, Statistical Modeling, Predictive Analytics, Time-Series Analysis, Optimization Methods, ML/AI Workflows, Data Visualization, Workflow Automation, Security Best Practices, Access Control, Data Governance, System Administration, Linux Environments, Docker Compose, Scripting & Performance Monitoring. Qualtrics, Survey Research Design, Questionnaire Development, Sampling Strategy .
Quantitative Research	Factor Modeling, Strategy Backtesting, Transaction Cost Analysis, Performance Attribution, Adversarial Pattern Analysis, Obfuscation Modeling, Robustness Evaluation, Attack Surface Quantification R, MySQL
Communication	English, Bengali, Hindi

TECHNICAL EXPERIENCE

IT Production Control / New York State Workers' Compensation Board Conduent	2024 — Present Endicott, New York
<ul style="list-style-type: none">Led development of classification models to improve predictive accuracy for business use cases.Executed large-scale data preprocessing to prepare high-volume datasets for analytics and ML workflows.Contributed to database migration tasks, ensuring structural consistency and reliable data movement.Trained and fine-tuned machine learning models to enhance performance.Created optimized database queries to support reporting and business analysis.	
Lead Data Analyst / Healthcare Analytics R2 Institute of Data Science and IT	2024 Newark, New Jersey
<ul style="list-style-type: none">Conducted exploratory analysis on large-scale demographic and health datasets to extract key population trends.Built interactive visualizations to present analytical insights to both technical and non-technical teams.Delivered data-driven presentations that influenced research priorities and strategic decision-making.	
Research Assistant / DHS Demographic Health Analysis Graduate Assistant	2023-2024 Montclair, New Jersey
<ul style="list-style-type: none">Analyzed demographic and health survey (DHS) datasets to identify population- level patterns and research insights.Developed visualizations and data summaries to support academic discussions and faculty-led research initiatives.Presented analytical findings at the 2024 Montclair State Student Research Symposium, contributing to institutional research visibility.	
Project Associate / SDG Impact Measurement & Analytics Project SDG Pivot	2021 — 2022 Dhaka, Bangladesh
<ul style="list-style-type: none">Coordinated multi-source data collection for sustainability initiatives, improving project evaluation accuracy across 10+ partner organizations.Analyzed performance metrics for 5+ SDG-aligned programs, enabling data- informed decisions and measurable progress tracking.Built dashboards and summary reports to communicate insights and outcomes to government, academic, and NGO stakeholders.	

EDUCATION

Master of Arts in Social Research and Data Analysis, Montclair State University	2024
Bachelor of Social Science in Political Science, National University, Bangladesh	2019

CERTIFICATION

Data Collection and Management, Montclair State University, New Jersey	2024
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RESEARCH

A systematic review of AI and machine learning–driven IT support systems for improving efficiency and automation in technical service management , Vol. 2 No. 02 (2023): Data Science, Artificial Intelligence, and Business Intelligence	2023
Cybersecurity Challenges in IT Infrastructure and Data Management , Vol. 1 No. 01 (2022): Global Mainstream Journal of Innovation, Engineering & Emerging Technology	2022