

Pritom Bhowmik

Parsippany, New Jersey, USA | (862) 399-9031 | bhowmikp1@montclair.edu | [GitHub](#) | [Portfolio](#) | [LinkedIn](#)

Gen-AI Data Analyst

With 3+ years of experience in Advance Data Analytics, Supply Chain Analytics, ML and Generative AI, I specialize in solving business problems, driving data-driven insights, optimizing processes, and delivering measurable impact.

Education

Montclair State University, New Jersey, USA

Expected Graduation May 2025

Master of Science (MS) in Data Science, Cumulative GPA: **3.97/4.0**

Honors: Alpha Epsilon Lambda Honor Society

Institute of Engineering & Management, Salt Lake, Kolkata, India

August 2016 - July 2020

Bachelor of Technology (B.Tech.) in Computer Science & Engineering

Skills

Data Analytics and Statistics: Data Cleansing, Data Wrangling, Exploratory Data Analysis (EDA), Descriptive & Inferential Data Analysis, Hypothesis Testing, A/B Testing, Predictive Modeling, ELT

Language: Python, R, PostgreSQL, MySQL, Java

Data Visualization and Reporting: Tableau, Power BI, Excel, MS Words, Power-Point, Data Storytelling and Communication

Machine Learning: Supervised and Unsupervised Learning, Time Series Analysis, Feature Engineering, Evaluation and Deployment

Tools and Methodologies: Jupyter Notebook, Git, AWS, GitHub, Docker, MS Words, MS Power-Point

Generative AI: Prompt Engineering, Model Fine Tuning, Agentic AI, RAG, CAG, AI based Chatbot Development

Projects (Academic & Professional)

Data-Driven Customer Churn Analytics & Predictive Insights for Proactive Retention Strategies

- Identified top churn factors, including customer tenure, engagement, and support issues, provided actionable insights for reducing churn by 12% through targeted retention strategies.
- Helped the Marketing Team optimize retention campaigns, increasing customer re-engagement by 18% and boosting conversion rates by 22%, leading to a measurable decrease in churn through data-driven personalization and outreach strategies

Multi-Agentic RAG-CAG Based Chatbot System for Pharmaceutical Supply Chain Analytics & Operational Optimization

- Specialized multi-agents with RAG & CAG implementation for demand forecasting, route optimization, and inventory management autonomously analyze real-time data, reducing inefficiencies, minimizing delays, and improving decision-making.
- Enabled stakeholders to perform complex supply chain analytics through a conversational AI chatbot, leveraging Agentic RAG to generate insights from structured and unstructured data using simple natural language queries.

Supply Chain Risk Factor & Inventory Optimization Analysis with OpenAI, Python & Statistical Analytics

- Improved supplier performance and risk management by 35% through AI-driven analysis of on-time delivery rate, defect rate, and financial stability score.
- Reduced stockout risk by 42% using predictive analytics to optimize reorder points based on demand variability and lead time.

Predictive Analytics for Bottleneck Detection & Cost Efficiency in Logistical Operations Leveraging AI & Visualization

- Designed ML-driven models to identify bottlenecks and forecast shipment delays, improving on-time performance by 28% and reducing average shipment delays by 35%
- Built interactive dashboards with automated ETL pipelines, enabling real-time decision-making that cut operational costs by 22% and reduced analysis time by 40%.

Work Experience

Upwork (Domain- Supply Chain, Logistics, Healthcare)

June 2021 – March 2023

Lead Data Analyst (Freelance-Remote)

- Conducted a comprehensive supply chain analysis for a manufacturing client, identifying bottlenecks and improving on-time delivery rate from 73% to 94%.
- Developed a sales analytics dashboard that provided real-time insights into sales performance, leading to a 17% increase in quarterly sales through targeted marketing strategies.
- Implemented a demand forecasting model that increased forecast accuracy by 25%, directly contributing to a 10% reduction in operating costs.

Upkey, Chicago, IL

November 2020 – May 2021

IT Project Management Internship, Project Sponsored by IE Business School, Spain

- Developed an End-to-End ML-based clustering system to group patients with similar cancer profiles & improve patient support network effectiveness by 55%. (Top 3 among 22 projects)

LinkedIn Link: www.linkedin.com/in/pritom-bhowmik-296285337