PRITOM BHOWMIK

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DATA SCIENCE PROFESSIONAL

Data Science Graduate Student specializing in designing and implementing sophisticated data-driven solutions. Proficient in advanced statistical modeling, machine learning, and data processing to extract actionable insights, creating significant value for organizations.

AREA OF INTEREST: MLOps, ML Engineering, TinyML, A/B testing, etc.

EDUCATION:

Montclair State University (MSU), Montclair, NJ

Master of Science in Data Science   Current CGPA: 3.90   Expected Graduation May 2025

Relevant Coursework: Machine Learning, Data Mining, Statistics, Exploratory Data Analysis, etc.

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

Bachelor of Technology in Computer Science & Engineering   July 2020

Coursework: Database Systems, Algorithms & Data Structures, Programming, Computer Architecture, etc.

WORK EXPERIENCE:

Data Analyst (Freelance & Deep Analytica)   2020 – 2022

- Analyzed business data resulting in an 11% increase in sales for clients
- Developed predictive models that reduced inventory carrying costs by 20% through optimized stock management.
- Created data visualizations and dashboards, improving data accessibility, and saving critical time.
- Data Journalism: Conducted in-depth data analysis and visualization on 12 top garment companies in Bangladesh for an international newspaper.

Upkey, Chicago, IL   Jan 2021 – May 2021

Internship (Remote) **Project Sponsored by IE Business School, Spain**

- Developed an ML model & end-to-end system to cluster and help connect people with similar types of cancer.
- Worked with other team members and the project was ranked in the top 3 out of 24 projects

SKILLS:

- **Programming Skills**: Python, R, Algorithms & Data Structures, Flask (Microservices), A/B testing in Python
- **Data Science Skills**: MySQL, PostgreSQL, Apache Spark, Data Visualization, Data Processing and cleansing, Statistical Model building, Business forecasting, Machine Learning, Cassandra
- **Technology Proficiencies**: Tableau, Power BI, Jupyter Notebook, Excel
- **Soft Skills**: Data storytelling, Documentation, Report Writing, Effective communication & team management
- **Cloud Skills:** AWS

PRESENTATIONS AND RESEARCH PUBLICATIONS:

Pritom Bhowmik (2022). Machine Learning in Production: From Experimented ML Model to System. *Journal of Robotics & Automation, 3*(2), 200-208. doi.org/10.33140/jrar.03.02.08

Pritom Bhowmik & Arabinda Saha Partha. (2021, Oct). *A Data-Centric Approach to Improve Machine Learning Model's performance in production. International Journal of Engineering and Advanced Technology (IJEAT), 11*(1), 240-243. DOI: [10.35940/ijeat.A3201.1011121](https://doi.org/10.35940/ijeat.A3201.1011121)

Pritom Bhowmik. (2019, Dec). *Research Study on Basic Understanding of Artificial Neural Networks. Global Journal of Computer Science and Technology, 19*(4.1)

Conference Abstract: *Vulnerability of Neural Networks to Adversarial Attack and Defenses in Computer Vision (Paper ID – 24), 13-14 November 2021, IEEE Computer Society-Bangladesh Chapter*

Presentation: Future of IoT with Artificial Intelligence & data-powered solutions – IEM & Computer Society of India - AI & Intelligent Machines Conference, June 2022 at Salt-lake, Kolkata, India