# Mark Rumore

Technical Manager, ML / AI Engineering

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Technical ML Manager with experience in architecting and managing end-to- end MLOps pipelines, including governance, CI/CD, containerization (Docker, Kubernetes), deployment, and monitoring at scale. Proven track record in developing and productionizing ML, deep learning, and NLP models on Azure and AWS. Skilled in leading cross-functional teams, mentoring engineers, and driving Agile practices. Experienced in building real-time ml pipelines and streaming architectures for low-latency AI applications. Expertise in AI strategy, model compression, active learning, knowledge distillation, distributed training, feature stores, automated retraining, transfer learning, and interpretability to deliver robust, scalable AI solutions.

## Work Experience

**Technical Manager, Senior ML Engineer**                    May 2023 – Present

*Coca-Cola Bottling – Chicago, IL*

- Built departmental MLOps pipelines, implementing governance best practices, model lifecycle management, automated CI/CD workflows, and code review processes (Azure Pipelines, Docker, API Endpoints) to cut development and scalability time by 50% and reduce code vulnerabilities by 30%.
- Chaired the AI Governance Review Board, driving enterprise policies for responsible AI and ensuring 100% compliance with ethical and industry standards, including bias mitigation, fairness assurance, and model transparency frameworks.
- Directed cross-functional teams to implement scalable, production-grade ML systems on cloud-native architectures (Azure ML, Databricks, Snowflake, Kafka); launched the company's largest production model, reducing employee labor hours by 30% through outlet-level process optimization.
- Architected and deployed enterprise-scale models (CNN, ViT, RNN, real-time systems, APIs), transformer architectures, and recommendation systems, delivering solutions with optimal performance and model interpretability.
- Manage and mentor 10+ ML engineers and interns fostering skills: MLOps, model development, explainable AI, etc.

**Data Scientist**                                          Feb 2021 – May 2023

*XSELL Technologies – Chicago, IL*

- Engineered NLP models for chat/voice cobots, enhancing speech pattern recognition to optimize call agent responses.
- Led AT&T client model development, applying tuning and calibration techniques to prevent overfitting and ensure robust performance. (Deep Learning, fine tuning, Python, AWS, S3)
- Applied predictive modeling to refine classifiers, improving voice data capture efficiency in workflow processes. (refactor)
- Optimized ML Flow pipelines, including multinomial classifier calibration, transformer models, active learning, and few-shot learning techniques. (Transformers, hugging face, SageMaker)
- Deployed real-time production models to client servers, quality version control and Ansible for automated deployment

**Data Analyst**                                            Feb 2019 - Feb 2023

*Allied Benefit Systems – Chicago, IL*

- Developed a departmental Access database to centralize industry-specific data, enabling comprehensive risk analysis and strategic development. (SQL, DBM, Actuarial Methods)

## Core Skills

***Programming***: Python, R, SQL, Java, C - ***Cloud/MLOps:*** AWS, Azure, Databricks, Snowflake - ***Container***: Docker, Kubernetes

***CI/CD:*** Jenkins, GitHub ***Workflow***: MLflow, Kubeflow, Terraform - **Additional Skills**: Agile/Scrum, Real-time deployments, ETL

***Visualization:*** PowerBi, Tableau, DAX, Sisense

## Education

**DePaul University** – **MS** Computer Science, Artificial Intelligence                    2025

**DePaul University** - **MS** Data Science                                                   2022

**University of Iowa** - **BA** Economics                                                     2018