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

- 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

- 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

- 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

DePaul University - **MS** Data Science

University of Iowa - **BA** Economics