

Matt Oremland, PhD

Sr. Director of Data

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PROFESSIONAL SUMMARY

Senior data leader with 10+ years of experience building and scaling data organizations, platforms, and AI capabilities in regulated and high-stakes industries. Proven track record of translating business objectives into data strategy and delivering production ML and analytics solutions on modern platforms including Snowflake and Databricks. Experienced leading cross-functional teams of data scientists, engineers, and analysts while serving as a strategic advisor to executive leadership on data governance, platform architecture, and AI roadmap. PhD in Mathematics with deep expertise in predictive modeling, data infrastructure, and responsible data operations.

PROFESSIONAL EXPERIENCE

Redica Systems

April 2025 – February 2026

Senior Director, Data Strategy & Analytics

Remote

- Owned and executed the company's data strategy and analytics roadmap, translating business and product priorities into a sequenced set of data initiatives aligned to client outcomes and revenue retention.
- Designed and deployed a production LLM classifier (OpenAI API) on unstructured FDA regulatory text, assigning severity levels and weighted topic categories across the full platform - owned end-to-end design, prompt engineering, and validation in collaboration with data engineering.
- Built risk-scoring predictive models from scratch in Python and Snowflake, quantifying regulatory exposure for pharmaceutical clients including Eli Lilly and Merck and directly supporting client retention and product differentiation.
- Architected reference data infrastructure to harmonize multi-source client datasets, resolving entity resolution challenges and establishing a reliable foundation for downstream analytics.
- Presented data strategy and AI findings to executive leadership and external audiences at CHPA and ISPE industry conferences, translating complex technical content into actionable business insight.

Gilead Sciences

January 2023 – March 2025

Director, Insights, Data & Analytics (Medical Affairs)

Foster City, CA

- Led a team of 5 data scientists, analysts, and dashboard developers, setting expectations, managing performance, and owning hiring and career development for the data organization.
- Defined and executed enterprise data and analytics strategy as a strategic advisor to senior and executive leadership, aligning data investments to Medical Affairs business priorities.
- Built a centralized data lake consolidating healthcare professional (HCP) and healthcare organization (HCO) data from multiple vendor sources, establishing a single source of truth that improved analytics reliability and eliminated redundant data operations.
- Established formal data governance frameworks including data requirements documentation, standardization protocols, and quality controls for enterprise healthcare reference data.
- Managed vendor relationships and budgets for data acquisition, cleansing, and standardization, ensuring high-quality data delivery at scale across a cross-functional organization.

Tidal Wave Analytics LLC

January 2025 – Present

Consulting Data Scientist & Founder

Saratoga Springs, NY

- Delivered end-to-end data and AI engagements for multiple clients simultaneously, owning problem definition, platform architecture, model development, and production deployment.

- Built a production random forest model for a building supply SaaS client (Paradigm) in Databricks, grouping sales quotes into projects using text and numerical features in a nightly pipeline that drives operational efficiency.
- Designed and implemented a RAG pipeline for a tax technology startup (Denari) using HuggingFace and PyTorch, ingesting IRS and state tax documentation to generate automated filing recommendations.

Takeda Pharmaceuticals

May 2021 – December 2022

Associate Director, Digital & Data Science

Lexington, MA

- Led digital and data science group alongside statistical monitoring group, delivering predictive ML models and real-time dashboards for manufacturing and quality decision support.
- Established operating standards and data requirements documentation, improving consistency and reliability of analytics outputs across a cross-functional organization.
- Led semi-annual Annual Product Quality Review cycles, synthesizing complex process analytics into executive-ready presentations for senior leadership.

Regeneron Pharmaceuticals

May 2016 – May 2021

Senior Process Data Scientist

Rensselaer, NY

- Developed predictive ML models for biopharmaceutical manufacturing - automated limit calculations, feed quantity optimization, and product quality prediction - using ensemble methods, PLS, and PCA.
- Built automated data pipelines for ingestion, cleaning, and transformation of complex manufacturing process data, improving data reliability and reducing manual effort.
- Presented modeling results and data-driven insights to senior leadership and cross-functional stakeholders across a five-year engagement.

EDUCATION

Doctor of Philosophy (PhD) in Mathematics

2014

Virginia Polytechnic Institute & State University

Dissertation: optimization and control methods for agent-based models in biological systems

SKILLS & TECHNOLOGIES

Data Platforms & Engineering: Snowflake • Databricks • AWS • Supabase • ETL/ELT Pipelines • Medallion Architecture • Data Lake Design

AI & Machine Learning: LLM Applications (OpenAI API) • RAG Pipelines (HuggingFace / PyTorch) • Random Forest • Ensemble Models • PLS • PCA • Scikit-Learn

Analytics & Visualization: Python • SQL • Spotfire • Sigma • Pandas • Dashboard Development • Custom Python Visualization

Leadership & Governance: Team Management • Data Governance • Data Strategy • Vendor Management • Stakeholder Engagement • Cross-Functional Leadership • Hiring & Performance Development