

Matt Oremland, PhD

Director of AI Strategy & Value Creation

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PROFESSIONAL SUMMARY

AI and data science leader with 10+ years of experience building production machine learning and LLM solutions, translating technical capabilities into measurable business outcomes across pharma, healthcare, and technology industries. Proven ability to operate as both strategist and hands-on builder - architecting roadmaps for executive stakeholders while personally designing, validating, and deploying models that run in production. Experienced working across multiple organizations simultaneously as a consulting data scientist, identifying high-impact AI opportunities and delivering results in resource-constrained environments. PhD in Mathematics with deep expertise in predictive modeling, LLM applications, and responsible AI implementation.

PROFESSIONAL EXPERIENCE

Tidal Wave Analytics LLC

January 2025 – Present

Consulting Data Scientist & Founder

Saratoga Springs, NY

- Engaged simultaneously with multiple portfolio-style clients across industries - building tailored AI roadmaps and delivering production ML solutions based on each company's data maturity and business goals.
- Built and deployed a production random forest model for a building supply software client (Paradigm) grouping sales quotes into projects using text and numerical features; model runs nightly in Databricks and delivers measurable operational efficiency.
- Designed and implemented a RAG pipeline for a tax technology startup (Denari) using HuggingFace and PyTorch, ingesting IRS and state tax documentation as a retrieval corpus to generate automated filing recommendations.
- Operated as both strategic advisor and hands-on builder in each engagement - moving from opportunity identification through implementation to production deployment.

Redica Systems

April 2025 – February 2026

Senior Director, Data Strategy & Analytics

Remote

- Designed and deployed a production LLM classifier (OpenAI API) on unstructured FDA regulatory text, assigning severity levels and weighted topic categories across the full client platform - owned end-to-end design, prompt engineering, and validation.
- Built risk-scoring predictive models from scratch in Python and Snowflake that quantified regulatory exposure for pharmaceutical clients including Eli Lilly and Merck, directly supporting client retention and upsell.
- Defined and executed the company's AI analytics roadmap, identifying high-impact opportunities to embed ML capabilities into core product workflows.
- Presented AI strategy and regulatory intelligence findings as a solo panelist at CHPA and ISPE industry conferences, translating complex technical content for executive and non-technical audiences.
- Architected reference data infrastructure to harmonize multi-source client datasets, resolving entity resolution challenges and enabling reliable downstream analytics.

Gilead Sciences

January 2023 – March 2025

Director, Insights, Data & Analytics (Medical Affairs)

Foster City, CA

- Led a team of 5 data scientists and analysts, defining and executing enterprise data and analytics strategy as a strategic advisor to senior and executive leadership.
- Built a centralized data lake consolidating healthcare professional (HCP) and healthcare organization (HCO) data from multiple vendors, establishing a single source of truth that improved analytics reliability and speed.

- Established data governance frameworks and formal data requirements documentation, enabling scalable data operations across a cross-functional organization.
- Managed vendor relationships and internal teams for data acquisition, cleansing, and standardization - delivering measurable improvements in data quality and operational efficiency.

Takeda Pharmaceuticals

May 2021 – December 2022

Associate Director, Digital & Data Science

Lexington, MA

- Led digital and data science group, delivering predictive ML models for manufacturing and quality decisions that reduced manual review burden and improved process consistency.
- Built real-time digital dashboards for process and quality monitoring, enabling data-driven operational decisions and executive visibility.
- Led cross-functional teams through semi-annual Annual Product Quality Review cycles, synthesizing complex analytics into executive-ready presentations.

Regeneron Pharmaceuticals

May 2016 – May 2021

Senior Process Data Scientist

Rensselaer, NY

- Developed predictive ML models for biopharmaceutical manufacturing including 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 process data, reducing manual effort and improving data reliability.
- Presented modeling results to senior leadership and cross-functional stakeholders, consistently translating technical findings into actionable business decisions.

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

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

Programming & Platforms: Python • SQL • Snowflake • Databricks • AWS • Supabase

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

Leadership & Strategy: AI Roadmap Development • Executive Stakeholder Engagement • Team Management • Data Governance • Vendor Management • Cross-Functional Leadership

PRESENTATIONS & PUBLICATIONS

- CHPA Regulatory, Scientific & Quality Conference (2025) — Solo Presenter: The Impact of AI on FDA-Regulated Industries
- ISPE Annual Meeting & Expo (2025) — Solo Presenter: Navigating FDA Compliance - Outsourcing Facility Inspections
- CHPA Quality and Manufacturing Meeting (2025) — Solo Presenter: Decoding FDA Enforcement Trends in OTC and Dietary Supplements
- Redica Systems Webinar (2025) — Solo Presenter: From Reactive to Proactive: Leveraging AI/ML to Improve the Quality Unit