

SUMMARY

Principal AI leader with 10+ years architecting production-grade ML systems that drive measurable business impact across enterprise clients. Lead cross-functional AI initiatives spanning product strategy, technical architecture, and organizational transformation—directing teams of 4+ data scientists while partnering with Product and Engineering to scale AI capabilities from research to production. Established AI governance frameworks and MLOps practices now serving 65+ clients with \$60M+ in cost savings. Excel at bridging technical execution with strategic vision, translating complex AI challenges into scalable solutions for critical infrastructure, utilities, and enterprise applications.

CORE COMPETENCIES

Technical Expertise: AI/ML Product Development, Advanced ML, Agentic AI Systems, MLOps

Platform & Architecture: GCP Vertex AI, CI/CD Pipelines

Governance & Process: Enterprise AI Governance, Auditability, Risk Management, Process Standardization

Leadership: Cross-Functional Technical Leadership, Data Science Mentorship, Strategic Planning

EXPERIENCE

- **Trinnex (CDM Smith)** Canada/USA
Principal / Lead Data Scientist 2022 – Present
 - Architected and scaled enterprise ML platform serving 65+ critical infrastructure clients (grown from initial pilot), driving \$60M+ in operational cost savings through predictive asset failure modeling, anomaly detection, and infrastructure risk assessment. Led technical implementation of production ML systems on GCP Vertex AI, accelerating deployment velocity from 4-6 weeks to same-day releases while maintaining model governance and quality standards.
 - Led technical team of 4 data scientists and orchestrated cross-functional initiatives with Engineering, Product, and MLOps to transition ML solutions from research to enterprise production. Established end-to-end ML development standards—version control, CI/CD pipelines, model validation, and deployment templates—improving developer productivity through AI-assisted development practices and achieving Google MLOps maturity (experimentation-operations symmetry).
 - Pioneered proactive AI governance framework (AIGP-certified approach) integrating traceability, validation gates, auditability, and incident response directly into the ML lifecycle. Built enterprise-grade governance controls from scratch (adapted from industry frameworks) to support accountability, risk management, and competitive differentiation—establishing foundation for regulated industry expansion and client trust.
 - Drive AI product innovation through production multi-agent systems using Google Agent Development Kit: competitive intelligence orchestration for automated market analysis and tri-agent dialectic framework (prosecutor-defender-adjudicator) for ML feature validation and data leakage prevention. Systems increased developer confidence, reduced review cycles, and automated edge case detection. Created "SEAL 6" collaborative methodology and knowledge-sharing platform to accelerate team capabilities while shaping product roadmap for agentic AI applications.
- **Polytechnique Montréal** Canada
Research Assistant (Full-time) 2018 - 2022
 - Developed and deployed production-grade AI framework for large-scale infrastructure anomaly detection, applying advanced ML techniques—Bayesian time-series modeling, reinforcement learning, and GPU-accelerated parallel computation—to real-time monitoring systems. Established research-to-production methodology and reproducible ML pipelines that became foundation for subsequent enterprise AI applications, demonstrating capability to operationalize cutting-edge AI research in mission-critical environments.

CERTIFICATIONS

- **Artificial Intelligence Governance Professional (AIGP)**, IAPP 2026
- **Project Management Professional (PMP) Candidate**, PMI 2026
- **Google Project Management Professional**, Google 2025

EDUCATION

- **Polytechnique Montréal** Canada
PhD, Civil Engineering (Artificial Intelligence) 2022
 - Focus: Reinforcement Learning, Imitation Learning, Bayesian Modeling, Probabilistic Decision-Making
- **Sharif University of Technology** Iran
MSc, Civil Engineering (Applied Mathematics) 2012