DAN SADATIAN

Data Science Manager

ML/AI Strategy
Enterprise Analytics

✉ dan@sadatian.io   in dansadatian   ⌗ sadatian

SUMMARY

Data Science Manager driving enterprise ML/AI strategy, analytics platform integration, and high-performing technical teams. Military veteran bringing operational discipline and a passion for translating complex data into actionable business narratives. Currently leading analytics integration following the Capital One–Discover merger, with expertise in context embedding, predictive analytics, and audit automation.

Core Competencies:

- **Leadership:** Technical Staff Management, ML/AI Strategy, Enterprise Integration, MLOps Governance
- **ML/AI:** NLP, Graph Analytics, Context Embedding, RAG, Vector Search, Generative AI
- **Data & Platforms:** AWS (SageMaker), Azure ML, Databricks (Spark), Docker, Kubernetes, SQL, Python/R
- **Analytics & Viz:** Tableau, Power BI, Looker, Alteryx, Plotly/Dash
- **Operations:** Simulation (Arena/SimPy), Process Optimization, ERP Systems

EXPERIENCES

Manager Data Science
Capital One

May '25 - Present

Leading strategic integration efforts following the Discover Financial Services acquisition, ensuring a seamless transition of data science capabilities and analytical infrastructure.

- Spearheading cross-functional integration initiatives to unify analytics platforms and standardize data science workflows across merged organizations.
- Managing technical teams through organizational change while maintaining operational excellence and delivering business-critical analytics solutions.
- Driving adoption of unified ML/AI frameworks and best practices to optimize model deployment and governance across enterprise systems.
- Collaborating with senior leadership to align data strategy and prioritize integration roadmap for maximum business impact.

Manager Data Science
Discover Financial Services

Feb '25 - May '25

Led critical migration and integration efforts during Capital One acquisition, managing the transition of analytical tools, data infrastructure, and team operations.

- Orchestrated enterprise-wide migration of analytics platforms and ML pipelines to ensure business continuity during organizational transition.
- Managed data structure harmonization and ETL processes to integrate disparate systems while maintaining data integrity and governance standards.
- Directed technical staff through acquisition period, maintaining team productivity and morale while navigating organizational change.
- Collaborated with Capital One leadership to assess, document, and transfer data science capabilities, ensuring seamless

knowledge transfer.
- Developed comprehensive migration roadmaps for analytical tools including Tableau, Alteryx, and proprietary ML frameworks.

Lead Data Scientist
Jan '23 - Feb '25

Discover Financial Services

Led cross-functional data science team specializing in context embedding, relational network analysis, and predictive analytics for enterprise risk management and audit operations.

- Directed team development of advanced context embedding models and relational network frameworks to identify patterns and relationships across complex financial datasets.
- Built end-to-end predictive Issue Analysis system leveraging NLP and graph analytics to proactively detect compliance risks and operational anomalies.
- Architected comprehensive analytics and reporting frameworks for all audit-related metrics, enabling real-time monitoring and automated reporting for internal audit teams.
- Implemented machine learning pipelines for fraud detection and risk assessment, substantially reducing false positive rates while improving detection accuracy.
- Mentored junior data scientists on best practices in model development, feature engineering, and MLOps while fostering a culture of technical excellence.

M.S. in Analytics Student
Jan '20 - Dec '22

Georgia Institute of Technology

Graduated with a 3.7 GPA in the Computational Data Analytics track. Notable courses include:

- High-Dimensional Data Analytics: Advanced ML, tensor decomposition, signal processing
- Data and Visual Analytics: Scalable analysis, graph analytics, interactive visualizations
- Big Data for Health Informatics: Spark, RDD, Pig, Hive
- Simulation: Process optimization, queue theory, Arena/SimPy

Financial Management Specialist (Active Duty)
Sep '15 - Sep '19

United States Army

Budget Analyst / Resource Manager — Mission Command Center of Excellence (Budget Office)

- Partnered with senior executives to program and execute expense accounts worth over $3.75 million.
- Prepared and presented biweekly, monthly and quarterly performance and execution reports to high-ranking officers and senior executives.
- Created dynamic dashboards for fiscal budgets with projections, forecasts and scenario evaluation options.
- Recruited and fully trained two new personnel that filled my position 3 months ahead of schedule.

Compliance Officer — Combined Arms Command G8 (Finance Office)

- Monitored financial internal control practices to ensure senior leaders were in compliance with fiscal regulations prescribed by DoD and local directives, policies, and program guidance.
- Implemented pattern analysis methodologies into audit guidelines that increased failsafe redundancies yet reduced total audit time.

Logistics Specialist — 40TH Military Police Battalion S4 (Logistics Office)

- Implemented automated tracking procedures that reduced overhead costs and manpower requirements.
- Identified equipment and supply requirements and prepared procurement and contracting documents for maximum mission effectiveness.

Executive Director

Aug '11 - Sep '15

Polysophy Inc.

- Founded a non-profit research organization to provide hands-on experience for STEM new graduates with a focus on studying renewable solutions.
- Enlisted instructors from CUNY-CityTech and NYU-Polytech to serve as members of the board and volunteer advisers for the research teams.
- Recruited over 50 scientists and engineers to form several small dynamic research teams.
- Secured funding and equipment to maintain 3 active research projects continuously.
- Implemented iterative development policies to allow individual projects to be worked on gradually by a large number of personnel.

Research Associate

Jan '09 - Nov '14

New York City College of Technology

- Provided technical and administrative support to a group of 4 scientists and over 40 student research fellows for multiple interdisciplinary research projects.
- Supervised student research activities and implemented use of Trello which improved collaborations significantly.
- Created dynamic solutions with MATLAB, R, Java and C++ to provide numerical and statistical analysis to each project.
- Designed and maintained multiple databases using Microsoft Access and MySQL to streamline data collection and analysis for the research groups.

EDUCATION

M.S. Analytics — Computational Data Analytics Track

Dec '22

Georgia Institute of Technology

B.S. Applied Mathematics — Finance Concentration

May '15

New York City College of Technology

A.S. Computer Science

May '13

New York City College of Technology

Certified ScrumMaster (CSM)

Jul '19

Scrum Alliance

Leadership and Management Development I

Apr '19

U.S. Army NCO Academy

Plan, Program, Budget, and Execution Systems

Feb '17

U.S. Army Financial Management School