MENG LI

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PROFESSIONAL SUMMARY

Strategic and results-driven **Data Science Leader** with **16+ years of experience** in **advanced analytics**, **mathematical modeling**, and **enterprise data integration** across healthcare, national security, and financial sectors. Holds a **Master's in Mathematics** and deep expertise in **AI/ML model development**, **predictive analytics**, and **real-time decision support systems**. Proven track record of leading cross-functional teams to architect and deploy **end-to-end data ecosystems**, delivering impactful insights via **Power BI, Tableau, Kibana**, and custom **Python solutions** (pandas, scikit-learn, PyTorch).

Demonstrated success aligning technical innovation with strategic goals, integrating data across **disparate healthcare systems**, defense networks, and financial infrastructures. Recognized for bridging the gap between **data science and executive decision-making**, with strong command of **Python, R, SQL, C++**, and modern **data governance principles**. Poised to serve as **Vice President of Data Analytics and Integration**, driving **evidence-based healthcare transformation** through **AI-enabled automation** and **data-driven operational excellence**.

TECHNICAL & PROFESSIONAL SKILLS

Machine Learning & Predictive Modeling: Skilled in designing, training, and deploying models using scikit-learn, XGBoost, TensorFlow, and PyTorch for forecasting, anomaly detection, and classification across finance, cybersecurity, and operational environments.

Data Visualization & Business Intelligence: Proficient in developing executive dashboards and real-time insights using Power BI, Tableau, Kibana, PowerApps, and Python libraries (Plotly, Seaborn, Matplotlib); experienced in visual storytelling and stakeholder-driven analytics.

Mathematical & Statistical Analysis: Deep foundation in quantitative modeling, statistical inference, and optimization, supported by a Master's in Mathematics; applied in bond valuation, cyber risk scoring, and resource allocation.

Programming & Automation: Advanced proficiency in Python, SQL, C++, Matlab, C#, and Visual Basic; experienced in scripting data workflows, integrating APIs, and building reusable automation pipelines.

Data Integration & Engineering: Led efforts to connect diverse data sources across defense environments; integrated structured and semi-structured data into unified analytics solutions via secure pipelines and APIs.

Cybersecurity Analytics: Developed cyber threat models, conducted penetration testing on 80+ systems, and deployed IDS/IPS to enhance threat detection and response across classified and commercial networks.

Financial Modeling & Risk Analysis: Built fixed income valuation models, conducted OAS-based pricing, and delivered actionable financial analytics using Bloomberg, Think or Swim, and proprietary software; authored over 4,000 daily securities valuations.

Leadership & Strategic Execution: Directed cross-functional teams in high-pressure environments, led analytics modernization initiatives, and translated complex models into C-suite decision frameworks; recognized for aligning data strategy with mission success.

PROFESSIONAL EXPERIENCE

Booz Allen Hamilton - Colorado Springs, CO   **2023-Present**
Lead Scientist

- Lead the design, training, and deployment of machine learning models supporting national security and operational readiness.
- Developed custom AI/ML agents, web applications, and data analytic tools to support diverse operational needs across intelligence, logistics, and strategic planning teams.

- Created advanced dashboards and interactive visualizations using Power BI, Tableau, PowerApps, Kibana, and Python (Plotly, Matplotlib) to communicate key findings and enable data-driven decisions.
- Built and maintained secure, scalable data integration pipelines ingesting multi-source structured and semi-structured data.
- Collaborated with cross-functional stakeholders to convert mission needs into technical solutions and product enhancements.
- Delivered clean, maintainable code and reusable analytics components using Git-based workflows and engineering best practices.

Leidos – Denver, CO   **2022 – 2023**

Chinese Language and Cultural Aanlyst

- Conducted linguistic screening and translation of high-volume foreign-language documents, extracting actionable intelligence and aligning outputs with mission-critical priorities.
- Applied foundational natural language processing (NLP) techniques and analytical frameworks to support content triage and thematic clustering across large datasets.
- Collaborated with intelligence analysts to structure and interpret unstructured data, contributing to broader trend analysis and decision support.
- Participated in forensic data processing and document exploitation workflows, supporting operational intelligence reporting and digital artifact analysis.
- Leveraged custom tools and internal databases to flag patterns, anomalies, and linguistic indicators relevant to national security operations.

UNITED STATES ARMY – Various Locations   **2013 – Present**

Cyber Security Analyst

- Led a cyber operations team in a deployed environment, supporting mission-critical systems with a focus on cyber threat detection, incident response, and data-driven defense strategies.
- Conducted penetration testing and vulnerability assessments on over 120 commercial and government systems, generating detailed reports and custom dashboards for remediation planning.
- Developed internal cyber analytics tools to automate security event correlation, prioritize risk indicators, and visualize attack vectors across multiple operational domains.
- Performed network traffic analysis to uncover anomalous behavior, using structured logs and threat intelligence feeds to train detection models.
- Designed and implemented dashboards using Python and Kibana, transforming raw security logs into actionable intelligence for commanders.
- Supported incident response through root cause analysis and correlation of multi-source security data; informed rapid decision-making during cyber events.
- Collaborated with IT, intelligence, and mission operations teams to enforce security policies, improve cyber hygiene, and shape data-informed readiness assessments.

Property Manager & Security Specialist

- Managed accountability and movement of over $26 million in government property, including equipment, vehicles, and weapons systems across multi-echelon organizations.
- Designed and maintained a custom database system to track asset status, locations, custodians, and hand receipts, enabling real-time data access across rear detachment and deployed units.
- Conducted data audits and reconciliation efforts that resulted in a 100% accountability rate during Command Supply Discipline Program (CSDP) inspections.

- Leveraged quantitative methods and linear programming to optimize maintenance schedules and resource allocation, reducing equipment downtime and costs by 25%.
- Produced data-driven readiness reports and risk assessments to support command decisions on redeployment, logistics, and asset transfers.
- Built internal reporting tools to visualize property status, personnel assignments, and loss trends, improving command situational awareness.
- Briefed senior leadership using charts, graphs, and predictive insights to support high-stakes logistical planning and property accountability operations.
- Recognized for implementing a scalable and replicable data tracking framework still used by follow-on units.

ANDREW KALOTAY ASSOCIATES INC. – New York, NY   2006 – 2013

Fixed Income Analyst

- Built and maintained quantitative pricing models for fixed income securities using Option-Adjusted Spread (OAS) frameworks, supporting real-time valuations across diverse bond instruments.
- Delivered daily pricing on over 4,000 agency securities, applying statistical modeling, scenario simulations, and cash-flow projections to inform institutional trading decisions.
- Conducted intra-day pricing research on Muni ETFs, identifying pricing inefficiencies through time-series analysis and contributing to model enhancements for bond valuation accuracy.
- Developed and validated Excel-based calculators and data tools, including a municipal refunding optimization model later published by Bond Buyer for use by public finance professionals.
- Partnered with investment banks and advisory firms to provide data-driven insights on municipal and utility bond structures, supporting high-stakes debt management strategies.
- Executed risk modeling (duration, convexity, key rate analysis) and delivered insights on interest rate sensitivity to inform asset-liability management decisions.
- Translated complex quantitative outputs into stakeholder-facing reports, supporting both regulatory compliance and strategic investment decisions.

Financial Software Developer

- Developed and deployed custom analytical software solutions to support fixed income pricing, bond analytics, and debt optimization, integrating Excel, Visual Basic, and proprietary libraries such as BondOAS.
- Engineered tools to convert callable yield curves into bullet equivalents, significantly improving modeling precision and efficiency for portfolio and risk teams.
- Led the design of modular valuation tools, supporting real-time pricing workflows, compliance checks, and dynamic portfolio simulations.
- Collaborated with quants and analysts to implement automated financial calculators for price-yield conversion, spread analysis, and risk measurement—accelerating reporting turnaround for institutional clients.
- Contributed to the transition from legacy spreadsheets to maintainable, production-grade models, enabling greater scalability and version control.
- Applied data validation and regression testing frameworks to ensure integrity across pricing outputs and financial assumptions.
- Provided technical documentation and user training to support enterprise rollout of analytics tools across investment advisory teams.

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Data Analyst

- Analyzed over 1.8 million municipal bond trade records to test and improve the robustness of proprietary tax-exempt pricing systems; performed large-scale data cleansing, aggregation, and pattern analysis.
- Conducted time-series and statistical analysis to forecast forward exchange rates using 3+ years of historical trade and rate data.
- Retrieved and modeled U.S. Treasury rates from 1960–2012 to independently validate portfolio performance assumptions and long-term yield projections.
- Utilized Excel, VBA, and SQL to build custom reporting tools and automate manual analysis pipelines, significantly reducing turnaround time for internal research and external client reports.
- Produced structured datasets and backtesting frameworks to support the development of OAS-based valuation models and refunding calculators.
- Collaborated with quantitative research leads to identify pricing anomalies and liquidity trends, contributing to strategic improvements in model logic and calibration routines.
- Supported data-driven decision-making through rigorous data profiling, model diagnostics, and exploratory analysis of bond market behavior.

NEW YORK UNIVERSITY, SCHOOL OF ENGINEERING – Brooklyn, NY   2002 – 2006
Department Coordinator

- Coordinated over 300+ tutoring sessions and academic support schedules each semester, optimizing instructor coverage and room assignments through manual and semi-automated planning tools.
- Taught undergraduate mathematics review sessions, enhancing student retention and performance in calculus, linear algebra, and statistics courses.
- Directed a team of peer tutors and aligned resources to match demand across STEM departments, resulting in a 25% reduction in resource overhead and improved student-to-instructor ratios.
- Assisted faculty in preparing course assessments, grading rubrics, and compliance-aligned documentation to support academic standards and accreditation requirements.
- Maintained internal databases for attendance tracking, grade monitoring, and tutor performance analytics, supporting data-informed decision-making for departmental improvements.
- Contributed to faculty onboarding and supported special academic projects requiring quantitative planning and scheduling.

EDUCATION / CERTIFICATIONS

Bachelor of Science | Mathematics | Statistics & Financial Modeling Concentration | New York University Tandon School of Engineering | Brooklyn, NY | Cum Laude 2005 Graduate
Master of Science | Mathematics | University of Colorado Colorado Springs | Colorado Spring, CO | 2018 Graduate **CompTIA Security+** | 2022
Cisco Certified Network Associate | 2021 **Virtual Hacking Lab Penetration Testing Course** | 2021
Actuary | 2006

AWARDS

Distinguished Graduate U.S. Army Cyber School | Army Achievement Medal, U.S. Army (4) | Dean's List, New York University (5) | Cum Laude, New York University | Outstanding Graduate Student