

# ALLISON BERGMANN

## AI/ML Manager | Technical Leader

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### PROFESSIONAL SUMMARY

Results-driven technical AI/ML leader and data scientist with 8+ years of experience across fintech, retail, and business intelligence spaces, and 4+ years managing high-performing teams of up to 12 reports. Proven success in building full-stack AI production systems, recommender systems, and data-driven solutions for companies, ranging from early-stage startups to Fortune 500 firms.

### EXPERIENCE

#### Ulta Beauty Remote

June 2023 – Present

##### Manager – AI/ML

- Manage a team of four AI/ML data scientists with a proven track record of developing talent, building high-performing data-focused teams, and facilitating cross-disciplinary projects while fostering organizational collaboration.
- Oversee end-to-end development and optimization of reinforcement learning recommendation pipeline and algorithm improvements from ideation to testing and deployment, resulting in a team revenue increase of +81% YoY.
- Prioritize and execute key projects, balancing technical feasibility, business needs, and production timelines, while significantly reducing development lifecycle times by 50% through up-leveling of process (use of OOP, unit test coverage, code reviews).
- Collaborate cross-functionally with product owners, engineers, UX/UI, and business leaders to define product goals and KPIs, leveraging emergent technologies where applicable.
- Contribute to AI/ML project efforts, including upgrades in a 3000 RPS real-time common service that resulted in a team-wide 80% reduction in algorithm development time.
- Improve backend efficiency through efforts like an Agentic MLOps framework that scans GCE and handles Level 1 support and model drift detection.

##### Lead Data Scientist – Digital Innovation

- Designed, researched, and implemented data science projects that leveraged computer vision, gamification, and AI in the retail digital innovation space.
- Collaborated on 4 net-new projects that saw expanded audience reach of 120%, generated 6.7x incremental revenue, and a 14-42% increase in customer CTR.
- Engineered and rebuilt legacy recommender systems and omni-channel customer-facing personalization integrations that resulted in eight-figure incremental revenue increases.
- Delivered an end-to-end wayfinding indoor positioning pilot, facilitated third party vendor relationships, and navigated project messaging with internal stakeholders.
- Spearheaded architectural restructuring and team process improvement initiatives, such as VM and GCP ecosystem migration, and upskilling for CI/CD and coding best practices.
- **New Leader Development Program:** A structured leadership development program which includes networking, assessments, and formal and informal leadership learning experiences.

#### Sisu Ventures, LLC Saint Louis, MO | Remote

January 2024 – Present

##### Founder, Sole Proprietor

- Build and maintain agentic AI driven algorithmic trading pipelines for US equities.
- Offer consulting and contracting services for data analytics and data science domains, with a focus on AI and business intelligence applications.

### SKILLS

#### AI/ML Techniques

Search & Recommender Systems  
Reinforcement Learning  
Operational Agentic AI | Gen AI  
LLMs | NLP

#### Engineering & Tools

Python  
Linux  
SQL | NoSQL  
Git | GitHub | BitBucket  
GCP | AWS  
REST | gRPC  
CI/CD Pipelines  
Experimental Design | A/B Testing  
Data Visualization  
Statistical Analysis

#### Soft Skills

Strategic Decision-Making  
Cross-Functional Collaboration  
Mentorship  
Thought leadership  
Innovation  
People Management

### EDUCATION

#### University of Michigan

Master of Applied Data Science, 2021

#### University of Missouri

Master of Business Administration, 2017

#### University of Kansas

Bachelor of Arts in Architecture, 2014

For project samples, and GitHub, please scan the QR code, or visit <https://arbergmann.github.io>



## **Exegy, Inc.** Saint Louis, MO | Remote

December 2022 – April 2023

### **Data Scientist – Quantitative Research**

- Designed and researched statistical arbitrage strategies and end-to-end pipelines for intraday and daily trading, specializing in the momentum trading space.
- Wrangled intraday trading datasets of multiple petabytes in size for use in statistical models.
- Refactored and redesigned research tools and pipelines, such as dynamic strategy back testers.
- Refreshed and retrained existing machine learning models for client-facing products.

## **Edward Jones** Saint Louis, MO | Remote

February 2020 – December 2022

### **Data Scientist**

- Led efforts on financial advisor peer clustering analysis to evaluate FA P&L efficiency and determine FA professional objectives.
- Partnered with the dynamic portfolio optimization team to lend strategic and technical support on a tool that leverages trade scheduling and portfolio rebalancing.
- Developed sensitivity analysis, model performance analysis, generate data-driven insights, and perform improvements for a suite of AML models, and manage related dashboards.
- Built comprehensive unit testing on internally created Python libraries.

### **Data Analyst**

- Led annual pricing review initiatives to benchmark company pricing policies and generated scenario analyses for future pricing changes. This effort led to a nearly year-long evaluation of present and future/long-term pricing strategies.
- Created a dynamic practice impact calculator to determine changing industry effects on branches for varying business strategies. The calculator was leveraged for the production of a branch-facing tool to provide significant value to the field. This project utilized analytical acumen as it pertains to database capacity, best practices for calculation logics, and branch practice business acumen.
- Worked with business owners to develop KPIs, and leverage economic models in efforts to research new business strategy proposals.
- Consulted on an advisor development initiative design and analysis for financial advisor groups. This included conducting propensity scoring, control group design, A/B testing, and subsequent proposal efficacy analysis in Python.
- Led the review of a previous focus client measure and its associated ETL pipeline and supervised learning model to ensure continued feature relevance and potential use cases in other future business developments.
- Assisted on a Letter of Authorization / fraud detection initiative that generated a significant monetary influence.
- Assisted with development, scenario modeling, and peer review of a program migration model for potential future business segments, where over \$1T of client funds and approximately 19,000 advisors would be affected by program parameters.

## **FEFA, LLC** Saint Louis, MO

March 2018 – January 2020

### **Director of Asset Management**

- Oversaw operations, portfolio management, compliance procedures, and quantitative analytics for FEFA Asset Management.
- Collaborated with senior management team to take a data-driven approach to develop and adapt sales processes, company policies.
- Oversaw the strategic direction of the asset management division.
- Managed and trained a team of 12+ financial advisors and portfolio managers.

### **Assistant Director of Asset Management, Senior Investment Analyst**

- Created process for researching, building, and managing 30+ company portfolios.
- Automated asset management processes with ETL pipelines, including account information audits, form submissions, portfolio tracking and management.
- Managed and trained a team of 9+ financial advisors.