

# KEVIN HARTMAN

[Portfolio/kevin-hartman.io](https://portfolio/kevin-hartman.io) | [GitHub/kevin-hartman](https://github.com/kevin-hartman) | [LinkedIn/kevin-hartman](https://linkedin.com/in/kevin-hartman)

## PROFILE

- Hands-on technology leader with experience in design, development and delivery of software-based systems. Managed initiatives from \$100K to multimillion-dollar efforts.
- Experienced practitioner in product management, ML engineering, data engineering, data science, application of emerging technologies, design research and experimentation, and lean product design.
- Proven thought leader active in public speaking, professional and academic community-building, lecturing at UC Berkeley, and many cross-company collaborations.

## CURRENT POSITIONS

- Director of Data Science, ML Engineering and AI Solutions at Unify Consulting
- Professor of Data Science at UC Berkeley
- Databricks Practice and Partnership Lead at Unify Consulting

## RELEVANT SKILLS

- MLOps, LLMops, ML Lifecycle Processes and Machine Learning Systems Design
- Data Platforms, Product Roadmapping, COEs and Data+AI Strategy
- Distributed data processing and petabyte-scale machine learning pipelines
- Deep learning with computer vision and large language models (LLMs)
- Exploratory data analysis and feature engineering for applied machine learning
- Quantitative methods for statistical analysis
- Experimental design and causal inference
- Effective visualizations / design for human perception / storytelling with data
- Edge devices, device prototyping and IoT
- Cloud/data platforms and serverless technologies
- Domain-driven design, microservices and event driven architectures
- Planning, defining and managing large-scale enterprise solutions
- Agile practitioner and certified scrum master
- Lean product: value-prop, jobs-to-be-done, business model canvas and user journeys
- Career learner with a focus on strategic thinking and creative problem solving
- Visual storyteller, facilitator and team builder
- CliftonStrengths: Responsibility, Learner, Restorative, Achiever, Belief, Relator, Communication, Arranger, Futuristic and Adaptability

## TECHNOLOGIES

- Apache Spark, PySpark, Spark SQL, Spark Structured Streaming, Delta Live Tables
- Keras, TensorFlow, PyTorch, PyTorch Lightning, Sklearn, MLlib, LLMs, HuggingFace
- Databricks Lakehouse, Redshift, BigQuery, Synapse, Oracle, SQL Server
- Kafka, Message Brokers, ESBs, Apache NiFi, Airflow, Kubeflow, MLFlow
- Databricks Workflows, Vertex AI Pipelines, Sagemaker Pipelines, Azure Data Factory
- GCP, Azure, AWS, Cloud Infrastructure, Terraform
- Domain-driven Design, Microservices, REST, Docker, Yaml
- Object-oriented Design, TDD, BDD, CI/CD, Jenkins, GitOps
- Python, R, Java, JavaScript, C#, C/C++

- Relational SQL, OLAP, NoSQL
- Jupyter, Anaconda, RStudio, Sagemaker, Vertex AI, Azure ML, PyCharm, VSCode
- Matplotlib, GGPlot, Tidy, Seaborn, D3.js, Altair, Tableau, Adobe Illustrator
- IoT, Device Programming, Edge Computing
- Linux/Ubuntu, Bash, Git; Windows and MacOS

## EDUCATION

- **University of California Berkeley**  
Master of Information and Data Science, 4.0/4.0 – 2020
- **University of Illinois Urbana-Champaign**  
Bachelor of Science, Electrical and Computer Engineering, Dean's List – 1991

## CLIENTS

- |             |           |                           |               |                      |
|-------------|-----------|---------------------------|---------------|----------------------|
| • PPL       | • ADT     | • Pepsico-FritoLay        | • Wellbridge  | • ServiceNow         |
| • T-Mobile  | • Zelis   | • American Hotel Register | • Nielsen     | • Chicago Tribune    |
| • Accenture | • JLL     | • AIM Specialty Health    | • Experian    | • Thrivent Financial |
| • Assurant  | • CDW     | • Rewards Network         | • MediaBank   | • Tarana Wireless    |
| • IAA       | • Aon Re  | • Grosvenor Capital       | • ChannellQ   | • Crowe Horwath      |
| • Tenneco   | • Motista | • UChicago – NORC         | • AcuSport    | • Fitch Ratings      |
| • Greif     | • ACCME   | • Guaranteed Rate         | • BCBS/HSC    | • Starwood Hotels    |
| • TTX       | • ProAg   | • Rotary International    | • RelayHealth | • Golub Capital      |
| • IRI       | • Alight  | • Riverside Publishing    | • Siemens     | • CNA Insurance      |

## INDUSTRIES

- |                      |                      |                              |             |
|----------------------|----------------------|------------------------------|-------------|
| • Digital Natives    | • Electric Utilities | • Platform Service Providers | • Logistics |
| • Provider Care      | • Building Controls  | • Travel & Transportation    | • Payments  |
| • Financial Services | • HR Services        | • Commercial Property        | • Insurance |
| • E-Commerce         | • Market Research    | • Industrial Manufacturing   | • CPG       |
| • Accounting         | • Publishing         | • Advanced Analytics         | • High-Tech |

## EXPERIENCE

### Professor of Data Science, UC Berkeley, 2023 – Present

- Lecturer for Data Science Capstone where students combine technical, analytic, interpretive, and social dimensions to design and build a data science product.
- The class provides an opportunity to integrate all the core skills and concepts learned in the program and prepares students for long-term professional success in the field.
- Students are evaluated on their ability to work collaboratively, meeting the intended needs of the stakeholder, application of appropriate data science and engineering methods, impact of solution, and final presentation delivery that clearly articulates the problem space and solution while addressing required elements from the course rubric.

### Teaching Assistant, Data Science Capstone, UC Berkeley, 2022 – 2023

- Provided advice to a cohort of 150+ students per term through scheduled Office Hours.

### Director of Data Science, ML Engineering and AI Solutions, Unify Consulting, 2021 – Present

#### Practice Development and Sales

- Grew our Data Science staff 20% and increased our ML Engineering staff 5-fold.
- Contributed \$14M in sales revenue through solutions.

- Brought three net-new accounts to the organization.
- Developed repeatable solutions for clients tailored to each stage of their Data+AI journey.
- Directly recruited Data Scientists and ML Engineers into the organization through my personal brand and network.
- Advanced the skill and development of our team through practice meetups, book clubs, paper readings, show and tells, one-on-ones, mentoring, creating personal training paths and leading by doing.
- Created sales and marketing assets, presentations, proposals, SoWs, and drove opportunities to close by providing thought leadership, subject matter expertise, and right-sized solutions.
- Implemented an evaluation problem for new Data Science recruits conducted over a live session between candidate and interviewer with pair programming to immediately assess technical skill, consulting acumen and critical thinking abilities.

### Databricks Partnership

- Socialized, enacted, and led our partnership with Databricks and nurtured it to a burgeoning program.
- Coordinating partner training events, developing programs, and managing certifications for our Data Engineers and ML Professionals to maintain our partnership status.
- Actively managing activity with our shared accounts, facilitating meetings, events, sponsorships, and assembling joint go-to-market programs. Activity has led to large, net-new opportunities that leverage our partner affiliation and credential status.
- Enjoying deep professional relationships with Partner Sales Directors, Account Executives, Solution Architects, Managing Directors and GMs/VPs at Databricks.
- Certified Databricks Machine Learning Professional and invited Databricks Champion.

### Client Work

- **ML Platform Designer:** Served as Machine Learning Architect and platform lead for a multi-billion-dollar energy company designing the organization's new data platform in support of emerging ML use cases for the modern electric grid.
  - Defined the needs and capabilities of the core data platform, conducted platform assessments with the organization's lead engineers and architects, and produced a scorecard comparing three cloud data platform providers to support both traditional BI analytics and operational ML use cases.
  - Implemented a dedicated Data Science environment to drive experiments and train models against the organizations operational data from the new data platform and tied the workspace together with end-to-end MLOps custom tailored to address specific challenges in this highly regulated industry.
  - Led the engineering and deployment of production models for Propensity Modeling, Power Outages and Load Forecasting.
- **AI/ML SOP Engagement Lead:** Served as subject matter expert, facilitator and engagement lead for a mega-cloud technology company that provides platform services that enable digital workflows.
  - Defined the organization's SOPs for AI/ML Dataset Management, AI/ML Model Development and AI/ML Deployment Operations.
  - Drove the standardization of processes across different ML teams by facilitating collaborative working sessions in Miro, providing subject matter expertise and driving consensus toward a set of three core operating documents that captured the standard approaches and procedures for AI/ML.
  - Included a detailed write up of recommendations for future process improvements to move the organization toward better operational ML and more responsible AI.

- **MLOps Architect:** Served as the ML Architect and SME for a multi-billion dollar provider of residential and commercial security solutions to build the firm's next-generation MLOps system.
  - System included automated pipelines and proactive model monitoring.
  - Additionally deployed a model on the platform that optimized remote service workflows to prevent costly truck rolls.
- **Data Science Engagement Lead:** Led effort to develop a churn model for a mega-cap multinational food, snack and beverage corporation that proactively identifies attrition risk for front-line service workers. The model finds the bulk of voluntary churn targets (68%) in 19% of the population, saving the organization \$10M in talent acquisition costs.
- **Data+AI Product Advisor:** Served as strategic Data+AI advisor to the senior product leaders responsible for growing and building the provider platform for a large, multinational technology and consulting company that provides services in digital human resources, health and wealth benefits management, and global payroll. Gathered ideas and iterated on feature concepts by applying design thinking principles, identifying "jobs-to-be-done" and discovering "how-might-we" with available data.
- **ML Use Case Program Facilitator:** Facilitated workshops and provided subject matter expertise for a multi-billion dollar energy company to develop high-value use cases that can be solved with ML that optimize call center operations. Established ROI metrics for each use case then refined and prioritized the backlog for program management.
- **Data Science & MLOps Engagement Lead:** Led effort in developing several prototype ML models for a cloud platform company in the healthcare payments space to address churn and propensity use cases for care providers in the company's payments network. Currently advancing the prototypes to production and initiating an engagement to build and scale MLOps for the entire enterprise.

#### **Hackathon Winner | Team Organizer and Lead, UNESCO, UNEP and Hackmakers, 2021**

- Recruited and led a team of graduating Data Science students to participate in the United Nations World Innovation Day Hackathon in April 2021. The hackathon brought together diverse teams from around the world to create solutions in support of the United Nation's Sustainable Development Goals.
- Our submitted solution, Carby, is an easy-to-use mobile tool that recommends low carbon alternatives to products a consumer would purchase normally. The tool utilized trained image recognition models and carbon footprint scoring on products captured from the user's mobile device camera to recommend alternatives.
- The solution won first place among several thousand submissions in the international competition.

#### **Product Manager | ML Engineer | Data Scientist | Architect, Independent Consultant, 2018 – 2021**

- **Data Scientist:** Designed experiments and developed machine learning algorithm for a legal automation startup to find high risk clauses in legal contracts. Leveraged Large Language Models (LLMs) from HuggingFace.
- **Solution Architect:** Designed cloud-native technology solution for a next generation data management platform in the medical accreditation industry. Defined architecture using domain driven design and microservices using serverless components.
- **Product Manager:** Managed delivery of a large-scale CRM solution with third party data integrations for a global industrial packaging manufacturer.
- **Product Manager:** Determined product-market fit and managed delivery of a software product in financial and investment services industry. Identified and delivered value prop using Business Model Canvas, Design Sprints, Lean Product Playbook, Design Thinking and Agile Software Delivery.

- **ML Engineer:** Assembled and optimized a data-pipeline process for a Fortune 500 B2B client using Apache NiFi, Spark, Hadoop, HDFS, Kafka, Spark Structured Streaming and PySpark.
- **Data Scientist:** Trained machine-learning model for a Fortune 500 B2B client to identify fraud detection using Scikit-learn, Python and Jupyter. Developed a pipeline process for deployment.

**Vice President, SPR Consulting, 2015 – 2018**

- Managed key client relationships and delivery engagements as client partner.
- Researched and delivered emerging technology solutions for strategic clients.
- Nurtured company culture of highly productive cross-functional teams.
- Defined 300-page collection of best practices for professional services software delivery.
- Pursued strategic initiatives on behalf of the CEO and CTO.

**IoT Practice Lead, SPR Consulting, 2017 – 2018**

- Defined IoT market strategy and offerings, and initiated partnerships.
- Performed R&D in consumer, commercial and industry 4.0 space.
- Built unique internal IoT products and facilitated hands-on IoT training labs.
- Mentored staff in the IoT space.

**Product Manager for Venture Capital Projects, SPR Consulting, 2015 – 2017**

- Developed four startups into a \$5M portfolio of investments from ideation to execution using business modeling, technology strategy, and delivery management.

**Principal Architect, Redpoint Technologies (an SPR Company), 2002 – 2015**

- Facilitated hundreds of interactive workshops for ideation, scoping and project definition.
- Managed 50+ projects across industries, from Fortune 500 to early startups.
- Built system architectures, from e-commerce portals and data analytics applications to sophisticated yield-management processes and multi-threaded grid solutions.
- Conducted Agile training camps, assessments and organizational transformations.
- Managed teams and delivered solutions using Agile methods and industry-leading architecture and design practices.
- Advised business owners in refining and validating their ideas and business models.
- Conducted architecture reviews with recommendations on technology/strategy advice.