Timothy Majidzadeh

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Data Scientist | Applied Economics and Strategy

Experienced Data Scientist with strong background in causal inference and strategic analytics. Delivered data-driven insights for 20+ cases, valued $1M to $1B. Collaborated across legal, technical, and business teams to transform complex datasets into actionable recommendations under tight deadlines. Skilled in Python, SQL, Databricks, and advanced experimentation. Proven ability to manage junior staff, own end-to-end workflows, and communicate findings to diverse stakeholders. Master's in Information & Data Science from UC Berkeley.

Skills

- Causal Inference: A/B tests, Natural Experiments, Difference-in-Difference, Synthetic Control, Propensity Scores
- Data & Tools: SQL, Python, Pandas, PySpark, R, Stata, Databricks, Microsoft Azure, Tableau, Power BI
- Machine Learning: Tensorflow, Keras, Neural Networks, Random Forest, Computer Vision, Generative AI
- Business Skills: Project Management, Cross-Functional Collaboration, Stakeholder Communication, Data Storytelling

Experience

Charles River Associates

Consulting Associate September 2023 – January 2025

Analyst; Associate August 2020 – September 2023

Delivered analytical solutions and data products in for high-value litigation and M&A strategy. Built scalable data pipelines, owned experimental design, and provided insights that influenced client strategy and decision-making. Acted as a key liaison between technical and non-technical stakeholders, ensuring clarity, rigor, and actionability of findings. Ensured analytical robustness under rigorous peer review by external data science teams.

- Built and maintained data pipelines using SQL, PySpark, Pandas, Databricks, and Azure; analyzed large-scale transactional datasets (e.g., Google Play Store).
- Developed causal inference models (DiD, Synthetic Control, A/B Tests) to estimate treatment effects and inform multi-million-dollar case outcomes.
- Managed teams of 2–5 junior staff, overseeing execution of technical workflows and ensuring high-quality deliverables.
- Delivered compelling data narratives and visualizations to senior economists, attorneys, and client leadership.
- Participated in 5-week formal management training covering influence, feedback, and stakeholder alignment.
- Designed and validated analyses to withstand scrutiny from external data scientists, ensuring rigor and defensibility.

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Sales Analytics Intern June 2018 – August 2018

- Cleaned and analyzed company sales data using tools such as R, SQL, KNIME, and Excel to find new insights.
- Communicated these insights to the sales team with PowerBI dashboards and written/oral reports.
- Implemented automated systems to standardize data inputs from international company franchises.
- Delivered data-driven report on drivers of sales office revenue.

Education

UC Berkeley, Master of Information and Data Science May 2025

Courses: Experiments & Causal Inference/AB Testing, Research Design and Data Applications, Statistics, Generative AI, Applied Machine Learning, Data Visualization, Data Engineering, Ethics of Data.

UC Berkeley, Bachelor of Arts – Economics, Minor in Data Science May 2020

Projects

Investigation of Alleged 'Algorithmic Collusion' in Rental Housing | UC Berkeley

Website: https://uc-berkeley-i-school.github.io/realpage-rent-impact/.

- Using methods such as propensity score matching, feed-forward neural networks, random forests, ARIMA forecasting and synthetic control regression, tested whether algorithmic pricing inflates rent.
- Leading a team of 5, identified a $200/month average rent increase for 800 sqft apartments, but did not identify collusion as the causal source. Delivered a research report and an interactive website.

In Re Google Play Store Antitrust Litigation | Charles River Associates | Python, SQL, Excel

- Utilized tools such as SQL, PySpark, and Databricks to process cloud-scale Google Play Store data at issue in class-action lawsuits between Google, Play Store users, Play Store developers, and U.S. states.
- Identified Play Store users and developers affected by allegations in litigation. Quantified damages leading to a settlement of $700 million.

Textbook Publishers v. Shopify, Inc. | Charles River Associates | Python, STATA, Excel

- Analyzed data from over 100 Shopify storefronts to identify sales of works alleged by Textbook Publishers to infringe copyrights.
- Created ML classification model to identify the 3,400+ allegedly infringed IPs among Shopify vendors' sales. Randomly sampled to estimate Type I/II error rates and adjust damages.

Teradata Corporation v. SAP SE | Charles River Associates | STATA, R, Excel

- Developed data-driven economic models – including a differences-in-differences analysis, an augmented synthetic control analysis, and others – to quantify damages owed in litigation.
- Reduced client damages from 9 figures to $0 by identifying flaws in opponent's causal inference assumptions and data analysis.

Immigration Survey Research Project | UC Berkeley | Qualtrics, Python, A/B Testing

- Conducted a randomized experiment, in A/B test format, to test whether survey responders' self-reported political opinions change if the survey format is changed to resemble a set of Facebook posts.
- Designed survey in Qualtrics and used Census data to set quotas ensuring a representative stratified random sample of the U.S. population. Found differing treatment effects based on political party.

Prototype RAG Model Deployment | UC Berkeley | Gen AI, HuggingFace, LangChain, Mistral, Cohere

- Developed RAG Gen AI models relying on Mistral and Cohere as LLMs, Qdrant vector stores, and LangChain as a pipeline. Tuned on different LLMs, temperatures, chunk sizes/overlaps, and prompts.
- Final models achieved ~95% context faithfulness in final models, as well as ~60% ROUGE-1 improvement over original models and ~10% cosine similarity improvement over original models.

Soccer Match Computer Vision Detection | UC Berkeley | YOLO, Tensorflow, Keras

- Trained You Only Look Once ("YOLO") CNN machine learning models to identify the location of soccer players and the ball in images of a soccer match. Extracted and processed ~1 TB of game images.
- Optimized by testing five versions of YOLO, image processing methods, and tuned hyperparameters. Achieved precision/recall of 0.868/0.771, improved from 0.586/0.264 in first model.

GitHub Portfolio: https://github.com/timothy-majidzadeh