Kevin R. Pan

http://kevinrpan.com

EXPERIENCE

Research Scientist

NY, Remote Nov 2022 - Present

New York, NY

Mar 2022 - Nov 2022

Oct 2018 - Mar 2022

- **Tool Building**: Created LLM tool for course writing team to generate detailed content outlines from customer call notes, saving 30%+ time on early drafting. Deployed as web app via GKE.
- **Research and Presentation**: Performed novel research into evaluating traits through VR headset analytics. Quantified immersive learning impact, presentation contributed to first Strivr Data Science Services deal.

Lyft

• Senior Data Scientist - Rideshare / Delivery Team Data Scientist - Customer Platform Science / Integrity Team

- **Delivery**: Led growth and quality data science for Lyft delivery. Identified opportunities, defined metrics and built key dashboards to track KRs. Created data based product designs that reduced delivery failures by 8%.
- Integrity: Led failed charge and chargeback reduction areas. Drove solutions and cross-team initiatives from ideation to execution, reduced steady-state failed charge losses by 62%. Promoted twice in 3 years.
 Drove loss reduction on our largest payment launches, Daily Billing and Lyft Cash, improving overall savings 2x.
- Data and Modeling: Engineered features to label fraudulent accounts via model instead of agent review.
 Architected core source of truth tables for financial loss data, now in the top 8% of most used Lyft tables.
 Deployed time-series anomaly detection model and alerts on losses. Reduced error on loss forecasting by 25%.
- Product Analytics: Led weekly science and analytics sync and planning for team of 12.
 Segmentated losses to align priorities and roadmap planning for product, engineering, science, and operations.
 Led Integrity team experimentation; standardized process, decision making criteria, and post-launch monitoring.

The Brattle Group

San Francisco, CA Jul 2016 - Sep 2018

Philadelphia, PA

- Research Analyst
 - **Data Management**: Created diverse data ingestion pipelines for multiple projects. Wrote and documented ETL processes, with widely-used, flexible cleaning functions, enabling many teams to more quickly perform analyses.
 - **Data Processing**: Sped up existing code run-time (by 10x) without loss of functionality. Optimized model runs to finish in days instead of weeks on a tight timeline. Determined variable importance from hundreds of variables using MCA, PCA, and t-SNE. Established firm-wide coding standards for R and SQL by giving formal trainings.
 - **Data Presentation and Insights**: Discovered and visually supported hypotheses for clients based on data trends, including custom interactive geospatial maps and D3-style network graphs.
 - **Blockchain Research**: Scraped data with custom Python and R scripts. Calculated implied interest rates from bitcoin spot and futures prices with anomaly detection. Assembled blockchain research for Brattle whitepapers.

EDUCATION

University of Pennsylvania

Bachelor of Arts in Mathematical Economics — Minors in Computer Science and Statistics Aug 2012 – May 2016

Projects

- Ask Data: Ask your data questions in natural language and get answers with SQL or Python code.
- Python Discord Bot: Greet, message, and track game stats for discord channels. Back-end data in PostgreSQL.
- 'Handy' R Package: Open source R package containing useful functions for common data handling tasks.
- Machine Learning Course: Authored Jupyter notebook modules (code and curriculum) on natural language processing, data visualization, Naive Bayes classification, and regression.

Skills

- Tools: Python (pandas, scikit, pytorch, plotly, flask, etc), SQL (Presto, Hive), R (tidyverse, ggplot, etc), Git, dbt, Docker, Javascript (React, Next.js), Excel, Large Language Models (langchain, model tuning, prompt engineering)
- Skills: Product design & experimentation, data warehouse & ETL, data mining & visualization, classification & regression, feature engineering & selection, NLP, data base design, web development, DevOps