

Daniel Kwon

Data Scientist at Headspace Health

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EXPERIENCE

Headspace

Senior Manager, Data Science

FEB 2023 - PRESENT

Principal Data Scientist

NOV 2021 - FEB 2023

- Developed a doubly robust estimator to measure the causal impact of user engagement on lifetime value, guiding content program optimization
- Built a multi-armed contextual bandit to personalize onboarding messages for free trialists, significantly boosting conversion rate
- Promoted in early 2023 to lead the Data Science team; tasked with guiding team strategy, reducing tech debt, and expanding team's focus to the newly created therapy marketplace
- Developed a ranking algorithm using combinatorial optimization to efficiently surface therapist appointments to members, optimizing session accessibility and therapist caseload management
- Spearheaded a cross-functional initiative to unify disparate forecasting efforts and development a streamlined process, resulting in an improvement in accuracy by 30% and an increase in efficiency across multiple teams
- Formed and led a cross-functional team to create a squad focused on advanced decision-making tools and analytics for our therapy marketplace, enhancing strategic capabilities and business insights

Ruggable

Senior Manager, Data Science

SEP 2020 - NOV 2021

- Founded and built a data science team from the ground up, establishing robust analytical frameworks that drove data-driven decision-making
- Developed a recommendation algorithm leveraging computer vision techniques to suggest related product SKUs in shopping carts, achieving a statistically significant rise in average checkout amounts and a reduction in cart abandonment rates
- Developed a web scraper to collect competitor pricing and image data, and set up alerts for stock shortages and sales, guiding Ruggable's Marketing strategy

Hulu

Manager, Advanced Analytics

JAN 2019 - SEP 2020

Senior Analyst, Advanced Analytics

MAR 2017 - JAN 2019

- Designed experiments that guided content and product teams' decisions on content merchandising and content acquisition strategies
- Forecasted content launch performance and collaborated with the product team to optimize editorial content selection and identify underperforming/stale content, outperforming trays curated through human intuition
- Developed causal inference models to measure how new content launches cannibalized existing titles, enabling the content marketing team to devise strategies that generated incremental engagement and minimized cannibalization

Accenture

Consultant, Analytics & Data Science Practice

JUL 2014 - MAR 2017

- Worked across telecom and tech sectors to empower companies with data-driven decision-making, enhancing strategic outcomes and operational efficiency
- Built automated reports and dashboard in Tableau and PowerBI that facilitated data-driven decision-making at the executive level
- Effectively communicated technical details to ensure strategic alignment between the Accenture team and client stakeholders

EDUCATION

University of California, Los Angeles

M.S. Applied Statistics

IN PROGRESS - ANTICIPATED 2024

Northwestern University

B.S. Industrial Engineering & Operations Research

2014

SKILLS

Programming Languages

Python, R, SQL

Tools/Libraries

PyTorch, SciKit Learn,
Gymnasium, Flask, Django

PERSONAL PROJECTS

Automated Caption

Generation with Neural Networks

Utilized a hybrid approach combining Recurrent Neural Networks and Convolutional Neural Networks to train a model capable of generating descriptive captions from images

Comparative Analysis of Public and Private Company Compensation Packages Using MCMC Simulations

Used MCMC simulations to model the expected value of hypothetical compensation packages of private companies based on funding stage

Deciphering Public Company Disclosures: A Sentiment Analysis Approach to Financial Statements

Compared sentiment in a company's S-1, 10-K, and 10-Q filings to subsequent financial performance

Disparities in Los Angeles City Services: An Analysis Based on Household Attributes

Merged Los Angeles' 311 service request data with census information to analyze the correlation between service wait times and area demographics