Daniel Kwon

Data Science / Analytics Professional

CONTACT

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EDUCATION

Northwestern UniversityB.S. | Industrial Engineering

b.s. | maastrar Engineering

UCLA

M.S. | Applied Statistics (In Progress) Estimated completion in 2023

PROGRAMMING LANGUAGES

.. Python

SOL



SKILLS

Regression / Classification Tree-based Models Time Series Forecasting Clustering (K-means) A/B Testing Design of Experiments Data Visualization Financial Analysis

EXPERIENCE

Ruggable

Senior Manager, Marketing Data Science August 2021 - Present

Manager, Marketing Data Science

September 2020 - August 2021

- Developed bundled offers using association rules mining to identify pairs of rug designs that would lead to the most lift in sales, which led to an increase in bundled purchases of ~10X higher than human-generated bundles
- Created framework to measure incremental impact of new product launches and identify cannibalization within the existing catalog using ARIMA forecasting on interrupted time series
- Developed uplift model to measure the incremental improvements to a customer's conversion probability if given a discount offer; used to create retention email campaigns with a variable discount offer
- Led effort to conduct experiments with treatment groups defined by geographic boundaries when traditional A/B testing is not possible; used Difference-in-Differences technique to measure impacts of marketing campaigns primarily viewed on mobile devices

Hulu

Advanced Analytics Manager

January 2019 - September 2020

Senior Analyst

March 2017 - January 2019

- Led development of a content valuation framework to quantify the retention/acquisition benefits of a given title, which influenced Hulu's approach to content valuation
- Developed approach to adjusting engagement forecasts by adjusting for "inflation" among older titles, thereby reducing error in existing production model by 40%
- Developed financial forecasts and models which led to the decision to reduce Hulu's entry level price from \$7.99 to \$5.99, resulting in a sign-up lift of 20-30% and incremental growth in net margins
- Developed engagement forecasts for Hulu's prospective international expansion into LATAM and EMEA

Accenture

Analytics Consultant | July 2014 - March 2017

- Developed churn models for major US telecom client to identify and proactively mitigate churn among at-risk subscribers
- Developed forecasting model used to create staffing schedules for app reviewers / moderators at a big tech client; daily MAPE of <5% allowed for better staffing and significantly reduced wait times
- Wrote ETL scripts to stitch data from several legacy databases for state government client