SENIOR DATA SCIENTIST

Senior data scientist and visualization engineer with a wealth of experience transforming large sets of data into actionable insights. Expertise in helping teams quantify and reach goals. I build pipelines, statistical models, dashboards, A/B testing frameworks, and other tools that enable teams to make better decisions.

TECHNOLOGIES: Queries and pipelines in SQL, Airflow, Hive ETL; Analysis in Python (Pandas, NumPy, SKLearn), R, Excel, Shell Scripting; Data Vis/Front-End in Looker, HTML, CSS, JavaScript, D3.

COMPETENCIES: Building Data Pipelines, Experimentation System Design & Analysis, Defining & Moving Metrics, Statistical Modeling, Dashboards, A/B Testing, KPI Definition, Data Literacy, Decision-Making, Problem-Solving, Business Intelligence Analytics

PROFESSIONAL EXPERIENCE

Coursera - SENIOR DATA SCIENTIST

2022

- Empowered the paid media team to optimize ad spend by setting up return-on-investment (ROI) measurement by channel. Authored a script for estimating ROI for TV campaigns. Enabled the team to achieve 187% ROI on the latest campaign.
- Delivered a generalized list of users with attributes that included language, geography, and users' interests to enable self-serve audience creation by the email marketing team. Brought in 300k+ new paying learners into the program.
- Instituted company-wide KPIs that measured marketing and acquisition team performance as well as top-of-funnel growth. Shifted the priority to focus more on meaningful KPIs with concrete objectives.

Udemy - SENIOR DATA SCIENTIST

2019 - 2022

- Founded and led the Experiment Review Council, overseeing 150+ experiments in 2021; which in turn generated \$21M in annualized lift.
- Built out a system that identified and removed bots from experiment results, eliminating nearly 60% of invalid traffic.
 Accelerated the rate of experiment results with fewer experiment restarts.
- Clearly defined metrics for learning engagement, constructed a model that studied drivers, and enhanced the user experience. Boosted learning engagement by 11% year-over-year.
- Championed a project that incorporated non-video engagement into the instructor compensation package. Incentivized instructors to include more content beyond just standard video.

Facebook - DATA SCIENTIST

2017 - 2019

- Designed and implemented an accuracy measurement to benchmark and approve the moderation systems. Determined the most accurate sampling distribution and headcount requirements for a body of expert moderators that judged the accuracy of 15k+ content moderators. Decreased the number of errors by 40% in one year.
- Built model identifying ambiguous cases; led to the creation of the Oversight Board for review (oversightboard.com).

New York Times - DATA VIS ENGINEER

2013 - 2015

• Expanded data literacy, access, and decision-making by developing and implementing custom interactive visual dashboards in D3.js. Delivered outstanding business intelligence analytics across 10+ departments that included financing and advertising teams.

Dstillery - DATA SCIENCE ANALYST

2011 - 2013

- Developed bidding strategy for real-time online ad auctions.
- Used web browsing behavior to target ads to users most likely to buy client products. The method employed matched a
 retargeting strategy that was dominant at the time, while achieving much greater scale.

EDUCATION & PROFESSIONAL DEVELOPMENT

MSc in Data Science, New York University **BA in Mathematics,** Dartmouth College