

DEVAL SHAH

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Data Scientist with over 9 years of experience specializing in AI agent evaluations, mathematical optimization, machine learning model development, and linear programming.

EDUCATION

Ph.D, Mathematics and Statistics, The Open University, London, UK Oct 2026 - Present
M.S., Analytics, Concentration in Statistics, Georgia Institute of Technology Jan 2020 - Dec 2022
Relevant Coursework: Deterministic Optimization, Simulation, Bayesian Statistics, Machine Learning

B.A., Economics, Psychology, Stony Brook University Aug 2013 - May 2017
Minor in Applied Mathematics
Co-founder (Stony Brook University ML Team)

SKILLS

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- Programming Languages: Python, R, SQL
 - Machine Learning Libraries: Pytorch, FastAI, Scikit-learn, Caret
 - Optimization Tools: PuLP, GLPK, LINDO
 - Data Processing, Cloud Computing: Spark, Databricks
 - DevOps / ETL: Airflow, MLFlow, Git, Docker, Kubernetes

RELEVANT EXPERIENCE

Senior Data Scientist, Ads Privacy and Safety, Agents and Trustgraph May 2026 - Present
Google *New York City, NY*

- Worked on Evaluations of AI Agents, including building golden datasets for reusable testing, and methodology to measure precision / recall / consistency / calibration of AI agent solutions internally.

Senior Data Scientist, Fulfillment ML and Recommendations Sept 2023 - April 2026
Etsy *New York City, NY*

- Developing techniques and machine learning models to estimate delivery days, and running experiments to validate results of ML models, both online and using batch prediction. (Python, Frequentist and Bayesian Hypothesis Testing, Statistics)
- Leading the Data Science function of 2 squads, including end-to-end development, deployment, monitoring, and maintaining of ML models.

Senior Data Scientist, Operations June 2019 - Oct 2023
HelloFresh *New York City, NY*

- Utilized Mathematical Optimization and Linear Programming to optimize a multi-million-dollar logistics network, resulting in ongoing annual transportation cost savings of over 25MM. (Python, Spark, Databricks, Gurobi, S3)
- Applied Machine Learning techniques for forecasting, predicting recipe uptake, and assessing the causal impact of menu changes. (Prophet, Scikit-learn)
- Developed Menu Planning and Recipe Creation models using Mixed Integer Linear Programming. (Python, Pyomo, CPLEX, Databricks)

Developer, Data Science

Kaplan Test Prep

Jan 2018 – June 2019

New York City, NY

- Created end-to-end analytics pipeline and visualization for sales and student performance reporting, resulting in improved student performance tracking and the reduction of manual work by 80%. (R, LaTeX, RMarkdown, SQL, and Tableau)

Data Scientist

Analytical Flavor Systems

May 2016 – Dec 2017

New York City, NY

- Led the development of end-to-end Machine Learning models in R to analyze specific products and generated automated PDF reports, resulting in contracts totalling over 1MM annual recurring revenue.
- Conducted Natural Language Processing on reference flavors and reviews.
- Led projection of preferences of professional tasters onto new and untested markets.
- Utilized Genetic Algorithms to guide new product development for food and beverage companies, optimizing flavor profiles for 5 major food and beverage companies, resulting in 20% increase in consumer acceptance rates.

COURSES

Intro To ML Safety

Center for AI Safety

Feb 2023 - April 2023

- Explored AI Safety, Robustness, Governance, and Mechanistic Interpretability through in-depth paper readings.
- Developed techniques to make Neural Networks robust to adversarial attacks and explored mechanisms for anomaly detection.

Deep Learning Specialization

Coursera, Andrew Ng

Aug 2022 - Dec 2022

- Built Deep Neural Networks, Convolutional Neural Networks (CNN), and Recurrent Neural Networks (RNN) from scratch.

PUBLICATIONS AND INTERESTS

[AFS White Paper: Predicting Market Preference](#)

[Predicting Market Preference – Presentation - ASBC\(2017\)](#)

Interests: Machine Learning, AI for Social Good, Effective Altruism, Computational Sensory Science