NIKHIL ADDLEMAN

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Skills

Research — Significant experience designing and implementing predictive ML models and causal inference research programs. Comfortable communicating model results and design decisions to stakeholders

Development — Implementing, optimizing, and deploying data science projects from concept to product. I am comfortable working with unfamiliar languages and frameworks

Tools

Programming — Python, R, SQL, Git, shell scripting, software testing

Modelling — Causal inference, ensemble models (boosting, decision forests), panel data, experimentation

Environment — Linux user comfortable with the command line and Vim

Frontend — Dash, Plotly, ggplot2, Matplotlib, Tableau

Cloud — AWS (S3, SageMaker ecosystem), GCP (BigQuery), Domino, GitHub

Experience

Senior Data Scientist (Contractor) — Bayer March 2022 — Present

As the first technical contributor to a marketing effectiveness project, designed, implemented and delivered a marketing effectiveness model and a web application for producing custom views of marketing and sales data to multiple stakeholder teams.

Developed interpretable causal inference and machine learning models and deployed interactive apps used by pricing teams to make decisions affecting $20M in annual sales.

Led discussions with stakeholders on project timelines, design alignment, and results presentation while building the first econometric price elasticity model in a billion-dollar market. I proposed and implemented research design, data ingestion, feature engineering and developed the model and app.

The work described above leveraged data processing and statistical tools in both R and Python including pandas, scikit-learn, XGBoost, and mlogit, querying databases, and platforms including AWS and Domino.

Developed technical tools including a command-line LLM interface and scripts for generating SQL queries for geographical product performance databases.

Research Fellow — UC Irvine October 2021 – March 2022

Built a decision forest classifier to uncover genomic predictors of age-related macular degeneration.

Publications

Foote, A., Gooyabadi, M., & Addleman, N. (2023). Factors in Learning Dynamics Influencing Relative Strengths of Strategies in Poker Simulation. Games, 14(6), 73.

Education

Ph.D. in Mathematical Behavioral Sciences – UC Irvine 2015 — 2021

Uncovered novel insights on the distribution of religious group sizes in the US.

B.S. in Mathematics – University of New Mexico 2011 — 2015