

Daniel DeWitz

[Portfolio](#) | dewitz.dan@gmail.com | New York, NY

Skills

Programming: Python (10 years), SQL (10 years), R (5 years), HTML/CSS (3 years)

Machine Learning & AI: Prompt Engineering, LLM Evaluation, LangGraph, LangSmith

Cloud & Data Engineering: AWS (SageMaker), Snowflake, ETL Design, Automation

Visualization: Matplotlib, Seaborn, Quarto, Plotly

Specialties: Fraud Detection, Econometrics, Causal Analysis

Professional Experience

Data Scientist

Advantage Technical | Indeed.com (Remote) — Feb 2025 – Present

- Lead development of AI platform tools and deliver AI education to drive organization-wide adoption.
- Design and evaluate LLM-powered agents using prompt engineering and retrieval-augmented generation.
- Apply machine learning to fraud detection; develop evaluation frameworks to ensure accuracy and fairness.

Data Scientist

Pandemic Response Accountability Committee (PRAC) (Remote) — Jun 2023 – Jan 2025

- Automated Python workflows to modernize reporting and boost operational efficiency.
- Built fuzzy-matching and risk-scoring models combining text audits, payment data, and watchlists to detect fraudulent Provider Relief Fund claims.
- Developed a statistical matching framework to identify Medicare beneficiaries and flag anomalies linked to stolen IDs; presented findings and led training sessions.

Data Engineer

Symphony Corp. | Apixio (Remote) — Feb 2022 – May 2022

- Created Python frameworks to parse raw healthcare claims into structured schemas for analytics.

Web Developer

AmeriCorps VISTA (Remote) — Sep 2020 – Aug 2021

- Designed and conducted a statewide survey of opioid treatment facilities, collecting detailed service data.
- Built an interactive map to visualize facility locations and service offerings for public access.

Data Analyst

WPS Health Solutions — Jun 2017 – Aug 2020

- Built SQL/Python pipelines benchmarking Medicare procedure utilization to identify outlier providers.
- Applied machine learning and network analysis to detect suspicious provider relationships.
- Developed statistical models to track Medicare code trends and coached new analysts.

Education

M.S. Economic Theory & Policy

Levy Economics Institute of Bard College, 2024

- Thesis: In Transit: Exploring Interactive Effects of Public Transportation on the Gender Leisure Gap

B.S. Behavioral Neuroscience

Viterbo University, 2012

Selected Projects

Mapping Iconic NYC Sandwiches with AI — Open Data Week NYC Workshop

- Built an interactive map of the NYT Top 57 Sandwiches using Python, web scraping, and Google Maps API. ([Workshop](#))
- Showcased AI-assisted coding workflows in a live tutorial. ([Map](#))

Early Career & Research Roles

- Research Assistant, Center for Healthy Minds — Built Python/Bash pipelines, automated participant scheduling and data evaluation routines, collected MRI data.
- Research Fellow, Georgia Institute of Technology — Conducted cognitive neuroscience research using Python and eye-tracking.
- Other Roles: High School Science Teacher, Park Ranger, Farmhand