






Jacob Pieniasek

Full Stack Data Scientist

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EXPERIENCE

84.51° | SENIOR DATA SCIENTIST

Jul 2024 – Present | Cincinnati, OH

- Leading a team developing a next-generation uplift measurement pipeline, in both experimental and quasi-experimental settings, to replace a legacy enterprise system, designed for scalability, extensibility, and interoperability.
- Driving R&D for CATE/uplift modeling for personalized targeting, and building reusable python package for CATE MLOps lifecycle management (feature generation, training, automated selection, deployment, monitoring).
- Developed a novel experimental design approach for multi-campaign measurement, capturing cumulative and interactive exposure effects while preserving RCT integrity.
- Co-lead an internal Causal Inference learning group, facilitating biweekly discussions across econometrics, experimental design, and causal ML.
- **Tech:** *Python, Kedro, Ibis, EconML, MLFlow, PySpark, Databricks, GitHub, Docker*

84.51° | DATA SCIENTIST

Jun 2022 – Jul 2024 | Cincinnati, OH

- Took ownership of an enterprise uplift measurement pipeline, including CI/CD and the development process, supporting large-scale campaign measurement throughout the year.
- Co-lead an internal Causal Inference learning group, facilitating biweekly discussions to strengthen shared practice in econometrics, experimental design, and causal ML.
- **Tech:** *Python, PySpark, Azure DevOps, Azure Data Factory, Databricks*

PROJECTS

CAML | CAUSAL ML LIBRARY (DOCS) (CODE)

- Opinionated Python package wrapping common causal inference workflows (ATE/GATE/CATE) with a focus on reproducibility and a production-friendly API.
- **Tech:** *Python, EconML/DoubleML, NumPy, FLAML*

NETBEAT | NETWORK SPEED TESTING CLI (CRATES) (CODE)

- Lightweight Rust CLI for testing upload/download speeds between a client and server, useful for homelab-style monitoring and diagnostics.
- **Tech:** *Rust*

PERSONAL WEBSITE | PERSONAL PORTFOLIO (SITE) (CODE)

- A self-hosted personal portfolio site and writing hub built to publish projects and articles.
- **Tech:** *Python, Reflex, Docker, Quarto*

MORE | ADDITIONAL WORK (PROJECTS) (ARTICLES)

- Collection of projects, articles, data science tooling, and research writing on my personal website.

SKILLS

CORE STRENGTHS

- Econometrics, Causal ML
- Statistical Learning, ML
- Applied AI, Agentic Workflows
- MLOps, DevOps
- Package Development
- Analytics Engineering

PROGRAMMING

Python • SQL • Rust • Bash
R • Stata • L^AT_EX

ML / CAUSAL

EconML • DoubleML
statsmodels • scikit-learn
XGBoost • FLAML

DATA / MLOPS

Databricks • Spark • Delta
Git • Docker • GitHub Actions
Azure • Kedro • Ibis • MLflow

EDUCATION

MIAMI UNIVERSITY

M.A. ECONOMICS

2022 | Oxford, OH

Cum. GPA: 4.0 / 4.0

Full Graduate Assistantship

UNIVERSITY OF DAYTON

B.S. BUSINESS ECONOMICS, APPLIED

MATHEMATICAL ECONOMICS

2021 | Dayton, OH

Cum. GPA: 3.92 / 4.0

Summa Cum Laude, Honor's Diploma

E. B. O'Leary Award of Excellence to the

Outstanding Senior Majoring in Economics

INTERESTS/HOBBIES

Self-hosting / HomeLab •
Open-Source Development •
Home Automation (Home
Assistant) • Writing Articles •
Hiking/Camping • Playing the
Guitar • Audiophile Pursuits