October 2021

Daniel Molitor

Email | Website | Github

Education

Bethel University, St. Paul, MN 2019

Bachelor of Arts – Mathematics, Economics *(summa cum laude)*

Experience

Associate Data Scientist

Research Improving People's Lives October 2019 – Current

- Developed individualized career recommendations and return-on-investment measures of labor training programs by applying causal machine learning techniques (Double/Debiased Machine Learning) to large administrative datasets (15+ million rows) to address existing skills gaps in the labor force.
- Assisted in developing a pipeline in R to quickly process RI Pandemic Unemployment Assistance applications and clean/format them to be compatible with government system requirements.
- Used machine learning (LASSO, ElasticNet, Random Forest, XGBoost, etc.) and causal inference to understand and improve various areas of public policy such as labor policy.
- Wrangled and cleaned large administrative datasets for econometric analysis using primarily R, and Python.

Data Analyst

Opportunity Partners May 2019 - October 2019

- Utilized BI tools, particularly Microsoft Power BI, to deliver actionable insights to executive teams in dynamic and intuitive formats.
- Developed internal processes/pipelines around data collection and storage using R and SQL.

Publications

Angell, Mintaka, et al. **"Delivering Unemployment Assistance in Times of Crisis: Scalable Cloud Solutions Can Keep Essential Government Programs Running and Supporting Those in Need."** Digital Government: Research and Practice, vol. 2, no. 1, Jan. 2021, pp. 1–11.

Angell, Mintaka, et al. **"Estimating Value-added Returns to Labor Training Programs with Causal Machine Learning."** OSF Preprints, 24 Sept. 2021.

Technologies

R (advanced), Git/Github, R Shiny, Microsoft Power BI, Python (basic), Linux

Methods

Machine Learning, Data Visualization, APIs, Web Scraping, Statistical Analysis

Personal Projects

R Notion API client; **Personalized Spotify Insights**; **R Bolasso Implementation**