Michael Riley

✉ troutmikeriley@gmail.com 📱 516-672-2690 github.com/mbriley

Experience

Senior Process Engineering Data Analyst   February 2018 - Present
Memorial Sloan Kettering Cancer Center, New York, NY

- Collected, analyzed, and presented data on hospital operations to Executive Leadership. Results informed both short and long term investments in mission critical capacity enhancements.
- Performed statistical analyses of multiple clinical initiatives in collaboration with clinicians and administrators. Results helped ensure that our initiatives improved operational efficiency without harming patient outcomes.
- Provided data processing and analytical support for dozens of process improvement projects and initiatives. Trained and mentored Process Engineers, Project Managers, and other analysts on SQL, R, and Git.
- Collaborated actively with data analysts across the organization. Developed functionality and approved pull requests for submissions to internally maintained R package.

Data Scientist   July 2015 - August 2017
University of Chicago Urban Labs, Chicago, IL

- Trained, evaluated, and analyzed predictive models on multiple large administrative datasets using Machine Learning algorithms and regression techniques.
- Conducted statistical analyses and created data visualizations for review by government agencies, academic partners, and philanthropists, as well as for academic and mainstream publications.
- Recruited, interviewed, and oversaw work of research assistants and junior data analysts.

Research Fellow   June 2014 - June 2015
Cook County Sheriff's Office, Chicago, IL

- Collected and analyzed data to evaluate efficacy of various alternatives to pre-trial detention.
- Conducated ad-hoc analyses and reports for executive staff and presented results.

Economist   October 2008 - August 2013
American Society of Composers, Authors, and Publishers

- Oversaw the design and implementation of a quarterly survey of musical works performed over Internet licensees. Assisted in the design of a survey of musical works performed over Television and Radio.
- Contributed to the distribution of license fees to over 400,000 members based on survey results.

Education

University of Chicago, Harris School   2013 - 2015
Masters in Public Policy

New York University, College of Arts and Sciences   2004 - 2008
Bachelor of Arts, Cum Laude. Economics and Music

Technical skills

- Data manipulation and analysis - advanced R (tidyverse, data.table), intermediate Python (Pandas, NumPy), 10+ years SQL.
- Machine Learning - caret, xgboost, glmnet, randomForest, scikit-learn.
- Data Visualization (ggplot2, htmlwidgets, beginner D3).
- Reproducible research and version control (Git, RMarkdown).