DENIS OSTROUSHKO

💼 RELEVANT EXPERIENCE

Graduate Research Assistant

Present
|
August
2023

University of Minnesota, Division of Biostatistics and Health Data Science

📍 Minneapolis, MN

Master's Thesis

- Collaborated with Dr. Julian Wolfson to evaluate the impact of cohort definition on the analysis of progression time and rates to Alzheimer's Disease (AD).
- Leveraged data from the Fairview Health System to conduct a sensitivity analysis study of cohort definitions. Suggested inclusion criteria resulting in robust data and maximized sample size.

Data Integration Predictive Methods for AD Identification

- Leveraged regression and machine learning methods to develop a pipeline to identity variables most associated with AD presence.
- Generalized results to multiple -omics data sources, used novel ML methods for integrated data analysis to improve accuracy of predictions by 17% for at-risk of AD population

Medica

August
2023
|
June
2019

Statistical Healthcare Analyst II (2021-2023)

📍 Minneapolis, MN

- Collaborated with business owners to assess member assistance programs. Used statistical models and simulations to understand cost savings distribution. Developed a strategy, resulting in an additional $1,000,000 annualized savings.
- Collaborated with member identification team to improve risk models for hospital readmission. Developed a set of predictive models. Best classifier improved AUC score by 15%.
- Led program evaluation studies using propensity score model, bootstrap methods, and other statistical approaches to optimize program management and increase healthcare cost savings by 5-40%.

Statistical Healthcare Analyst I (2019-2021)

- Automated actuarial completion factors model using SAS. Improved estimation granularity, reduced prediction error by 35%. Reduced delivery time for the final product.
- Consulted internal teams on ad-hoc analyses, inclusion/exclusion criteria, and inference from small samples of data to promote further pursuit of initiatives.
- Led the introduction of benchmarks from Milliman proprietary software. Improved identification of cost savings opportunities and increased strategy transparency.

🎓 EDUCATION

University of Minnesota School of Public Health

Expected
2024
|
2022

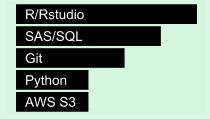**MS Biostatistics**

📍 Minneapolis, MN

University of Minnesota - Morris

2019
|
2015

BA Mathematics, Statistics *(Double Major)*

📍 Morris, MN

CONTACT INFO

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- 🔄 denisostroushko1.github.io
- 🔗 github.com/denisostroushko1

TECHNICAL SKILLS

- R/Rstudio
- SAS/SQL
- Git
- Python
- AWS S3

ANALYTICAL SKILLS

Frequentist and Bayesian Statistics

Predictive and Inferential Modeling

Correlated and Survival Outcomes

Observational Data Causal Inference

Study Design, Cohort Construction

Simulation Studies

DATA SCIENCE SKILLS

Static Reports, Interactive ShinyApps

`ggplot` and `plotly` Visualizations

Pipelines from Source Data to Final Products

Big EHR, Claims, Insurance Data Processing

Strong RX, CPT, Diagnosis Codes Understanding

Document powered by `pagedown`
Source code in Git

Last updated on 04/22/2024