DENIS OSTROUSHKO

RELEVANT EXPERIENCE

Present August 2023

Graduate Research Assistant

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

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%.

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.
- Led the introduction of benchmarks from Milliman proprietary software. Improved identification of cost savings opportunities and increased strategy transparency.

2019 2018

August

2023

June

2019

Research Assistant

Truckers & Turnover Research Project

Morris, MN

• Managed scripts to produce publication materials. Presented results of medical cost analysis for truck drivers with OSA as a poster. Helped develop a bootstrap simulation to estimate variance of cost differences.

EDUCATION

2015

University of Minnesota School of Public Health **MS Biostatistics**

Minneapolis, MN

University of Minnesota - Morris BA Mathematics, Statistics (Double Major)

Morris, MN

CONTACT INFO

J +1-612-231-4949

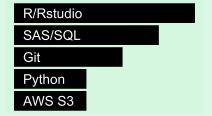
☐ denisostroushko1@gmail.com

in LinkedIn Profile

denisostroushko1.github.io

github.com/denisostroushko1

TECHNICAL SKILLS



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 02/29/2024