DENIS OSTROUSHKO

🎓 EDUCATION

Expected 2024 | 2022

University of Minnesota
MS Biostatistics 3.845 GPA
📍 Minneapolis, MN

2019 | 2015

University of Minnesota - Morris
BA Mathematics, Statistics 3.43 GPA
📍 Morris, MN

💼 PROFESSIONAL EXPERIENCE

August 2023 | June 2019

Healthcare Analyst I & II
Medica
📍 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%.
- 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.

📖 RESEARCH EXPERIENCE

Present | August 2023

Graduate Research Assistant
Master's Thesis
📍 Minneapolis, MN

- Worked with Dr. Julian Wolfson to evaluate the impact of cohort definition on the analysis results.
- Used data from the Fairview Health System to conduct the study. Created a list of cohorts with varying patient inclusion criteria. Illustrated that cohort definition can result in vastly different analysis results and conclusions.

Present | August 2023

Graduate Research Assistant
Multiview Data Integrative Analysis of Progression to AD
📍 Minneapolis, MN

- Developed a pipeline to identify important predictors of Alzheimer's Disease (AD) from lipidomics ADNI data. Generalized pipeline to other genomics data sets.
- Developed and compared multiview data integration methods (SIDA, iDeepViewLearn) to improve detection of at-risk of AD patients among ANDI cohort population.

2019 | 2018

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.
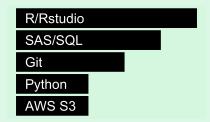
CONTACT INFO

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in LinkedIn Profile

🔁 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 01/19/2024