

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 identify 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

August
2023
|
June
2019

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
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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.

EDUCATION

Expected
2024
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2022
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2019
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2015

University of Minnesota School of Public Health

MS Biostatistics


 Minneapolis, MN


University of Minnesota - Morris


BA Mathematics, Statistics (Double Major)


 Morris, MN


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 denisostroushko1@gmail.com

 [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 02/29/2024