

DENIS OSTROUSHKO



EDUCATION

Expected
2024
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2022

2019
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2015

University of Minnesota
MS Biostatistics 3.815 GPA

📍 Minneapolis, MN

University of Minnesota - Morris
BA Mathematics, Statistics 3.43 GPA

📍 Morris, MN



SELECTED EXPERIENCE

Present
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2021

Healthcare Analyst II
Medica

📍 Minneapolis, MN

- Collaborated with business owners to evaluate and improve programs assisting members. Used statistical models and simulations to understand variance of cost savings estimates. Collaboratively developed a strategy to generate additional \$1,000,000 annualized savings.
- Translated actuarial completion factors from spreadsheets to SAS code for automation purposes. Reduced delivery time of monthly completion factors from a few days to a few hours. Implemented a more granular way to estimate these factors, resulting in 35% prediction error reduction.
- Collaborated with member identification team to develop a predictive model for members at risk of a 30-day hospital readmission. Collectively improved AUC score from 0.72 to 0.79.

2021
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2019

Healthcare Analyst I
Medica

📍 Minneapolis, MN

- Refactored legacy SAS and SQL pipeline for monthly large data set processing. Reduced total run time by 60%. Introduced QA checks.
- Produced static and interactive dashboards to visualize and summarize healthcare cost and utilization data for physician services and nursing teams. Automated reports saved 10 hours of manual editing each month.
- Lead the effort to introduce metrics from Milliman proprietary software. New metrics were used for cost savings opportunity identification and lead to more active business units engagement.

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 difference.

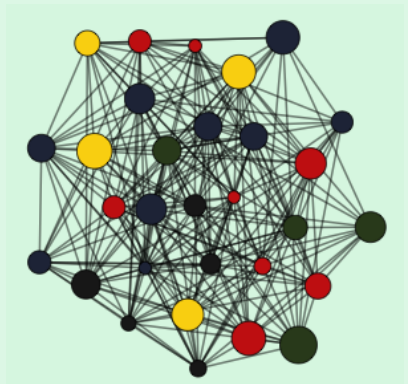


COMMUNICATION EXPERIENCE





Present
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2020

Publications  and **Software** 

- "ShinyApp - Market Analysis.(2021)"
- "The Pre-Registry Commercial Driver Medical Examination: Screening Sensitivity and Certification Lengths for Two Safety-Related Medical Conditions.(2019)"



Contact Info

 [Gmail](#)
 [LinkedIn](#)
 [Website](#)
 [Github](#)

TECHNICAL SKILLS

R/Rstudio

SAS/SQL

Git

Python

AWS S3

ANALYTICAL SKILLS

Statistical Modeling and Inference
Causal Inference
Predictive Modeling
Non-parametric Methods
Evaluation of Estimators and Bias-Variance

DATA SCIENCE

Static Flexdashboards
Interactive ShinyApps
ggplot visualizations
Source data-to-report pipelines
Big Claims and Insurance Data

Document powered by [pagedown](#)
Source code in [Git](#)

Last updated on 02/16/2023