

DRAKE WATSON

Irvine, California

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Experience

Chapman University

September 2023 – Current

Statistical Research Programmer

Irvine, CA

- Harnessed python and R to perform analysis of the CURES-PDMP database provided by the DOJ in order to evaluate the current state of opioid and benzodiazepine prescriptions in California.
- Verified the integrity of currently deployed ML models that draw from the CURES-PDMP database in order to check the validity of widely used systems in the health care industry.

Publications

Examining Bias in the Narxcare Score

Value in Health, June 2024

Dr. Sherry Wang Research Team, Chapman University

Irvine, CA

- Investigated the relationship between protected demographic characteristics of patients and their associated risk score assigned by NarxCare. Applied statistical analysis to unveil discriminatory patterns related to one of the key features used by NarxCare to assess patients.

Education

Tacoma Community College

Sep. 2017 – March 2020

Associate's in Mathematics

Tacoma, WA

University of Washington

Sep. 2020 – July 2022

Bachelor's in Mathematics – Minor in Data Science

Seattle, WA

University of California - Irvine

Sep. 2023 – Current

Master's in Data Science

Irvine, CA

Relevant Coursework

- Linear Algebra
- Data Visualization
- Statistics / Probability
- Real Analysis
- Numerical Analysis
- Database Systems
- Data Programming
- Visual Design

Projects

Vaccine Scheduler | Python, SQL, pymssql

January 2022

- Built a vaccine scheduling application, with the database hosted on Azure, that could theoretically be deployed by clinics to manage patient interactions through the terminal.
- Functionality of the application allows for patients to search for caregivers, check caregivers schedules, reserve appointments, show currently schedule appointments, and logout of the program.

World Happiness Report | R, shinyapp, HTML

May 2021

- Create an interactive web application that allows users to explore the World Happiness report.
- Merge together several databases containing socioeconomic and demographic data to allow for users to dig into underlying variables that may correlate with the World Happiness data.

Video Games Sales | Python, scikit-learn, plotly

May 2021

- Evaluate international video game sales numbers through multiple visualization techniques in plotly.
- Create a machine learning model to predict how games with certain characteristics would perform across different international markets based on the provided sales data.

Technical Skills

Languages: Python, R, SQL

Developer Tools: VS Code, PyCharm, Tableau, RStudio, GitHub

Libraries: Pandas, scikit-learn, matplotlib, ggplot2, dplyr

Honors / Accolades

Thomas P. Bleakney Endowed Scholarship in Mathematics

2022

University of Washington

Academic Excellence Scholarship

2022

University of Washington