

# Dominique Lockett, Ph.D.

**Data Scientist** 

St. Louis, USA 618 954 6277

dr.domlockett@gmail

Skills \_\_

**Programming & Tools** 

Python | R | API Usage | HTML | CSS | Bayesian Model Averaging | JavaScript | ETL | SQL (PostgreSQL, MySQL, SQLite) | Git | LaTeX | Jupyter | Scikit-learn | Pandas | Numpy | XGBoost | NLP

Experience \_

Data ScientistNovember 2024 - presentMaritzFenton, MO

- Engineered workflow to automatically deploy K-means clustering model to categorize consumer data, driving targeted marketing initiatives aimed at boosting engagement and sales
- Deployed a XGBoost model to accurately forecast the timing of consumer treatments, subsequently conducting A/B testing to inform business strategy
- Conducted detailed matching analysis to evaluate the effects of a promotional giveaway, demonstrating the impact of the promotional tactics

# **Data Science Specialist**

Scale Al

April 2023 - November 2024

Remote

- Developed end-to-end data science solutions for diverse use-cases (OCR, web scraping, NLP), providing functional examples and clear implementation guides
- Refactored LLM-generated code, improving functionality, efficiency, and adherence to best practices
- Provided in-depth evaluations of AI responses, delivering actionable feedback to improve model performance in fulfillment and presentation

## **Computational Scientist**

August 2017 — May 2024

Washington University in Saint Louis

Saint Louis, MO

- Designed an automated ETL pipeline for a Twitter text experiment with Python (nltk, numpy, and scikit-learn), populating hundreds of millions of tweets and replies into a SQL database
- Published multi-panel study exploring the impact of fake news on political participation, cleansing and analyzing data for 7500+ observations
- Ensured data integrity in a large multi-survey study of political advertisements, collaborating with a multi-disciplinary team to develop informative visualizations using R packages like ggplot2
- Forecasted the 2020 presidential election, implementing Bayesian model averaging approach to combine predictions from various models (Random Forest, SVM, BART, Kernel Regression)

### **Data Science Instructor**

June 2020 — June 2022

Washington University in Saint Louis

Saint Louis, MO

- · Delivered interactive, user-centered data science courses utilizing Python, Git, and JupyterLab
- Employed visual tools and practical examples in teaching Python and data visualization
- Supervised practical projects for Brown School of Public Health students', preparing them to clean, transform, interpret, and visualize data

#### Education

Ph.D. in Political science
B.A. Political Science (Cum Laude)

Washington University in Saint Louis Saint Louis University

2024

2016