github
website
linkedin

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 Scientist **November 2024 — present**
Maritz Fenton, MO

- Engineered workflow to automatically deploy K-means clustering model to categorize consumer data, driving targeted marketing initiatives aimed at boosting engagement and sales
- Developed a comprehensive consumer analytics framework by refactoring legacy scripts into a modular Python codebase, enabling consistent calculation of 100+ behavioral metrics
- Deployed a XGBoost model to accurately forecast the timing of consumer activity, 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 **April 2023 — November 2024**
Scale AI 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
- Managed data for 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	Washington University in Saint Louis	2024
B.A. Political Science (Cum Laude)	Saint Louis University	2016