github
website
linkedin

Dominique Lockett, Ph.D.

Data Scientist

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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 and executed K-means clustering to categorize customer data, driving targeted marketing initiatives aimed at boosting engagement and sales
- Created and refined a boosting model to accurately forecast the timing of customer treatments, optimizing scheduling and resource utilization
- Performed a detailed matching analysis to evaluate the effects of a promotional giveaway, evidencing a marked increase in customer activity, highlighting the success of the promotional tactics

Data Science Specialist **April 2023 - November 2024**
Scale AI Remote

- Developed end-to-end data science applications 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 and configured 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 Washington University in Saint Louis 2024
B.A. Political Science (Cum Laude) Saint Louis University 2016