

CLIFFORD BRIDGES

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I am a data scientist who is excited about collecting and understanding data to drive decision-making at every organizational level. With an extensive background in theoretical mathematics, my attention to detail informs my data acquisition, statistical analyses, and machine learning algorithms to produce robust, actionable results. I look forward to expanding my data science repertoire to new fields.

TECHNICAL SKILLS

C, Python, Git, LaTeX, Jupyter Notebook, SQL, Mongo, Beautiful Soup, Matplotlib, NumPy, Scikit-Learn, SciPy, Spanish

TECHNICAL PROJECTS

🔗 [Same Size, Same Brand, Different Fit](#)

Using Natural Language Processing to Determine Waistband Fit in Men's Swimwear

- Scraped e-commerce websites for garment descriptions using Selenium, regex, and Beautiful Soup
- Compared NLP results from sklearn's Random Forest, Logistic Regression, Multinomial Naïve Bayes, and Complement Naïve Bayes, and NLTK's Multinomial Naïve Bayes models after TF-IDF vectorization
- Presented results via LaTeX's presentation class Beamer using Matplotlib to generate graphs showing potential financial value added from project

🔗 [Whose Clothes Fit Well](#)

Statistical Analyses of Women's E-Commerce Clothing Review Ratings

- Imported csv files and cleaned data with NumPy and Pandas
- Performed hypothesis testing using SciPy and Cohen's d effect size using NumPy
- Visualized results with Matplotlib and Seaborn

EMPLOYMENT HISTORY

[The Sizing Company](#)

Nov. 2018 - Present

Director of Research and Development - Mathematics

- Develop ranking algorithm in Python matching users with garments according to user's specification
- Provide recommendations for MongoDB entry structure to decrease complexity of ranking algorithm
- Identify potential technologies and processes to further develop services such as pose estimation

[Big Dream Ministries](#)

Aug. 2019

Consultant

- Built ensemble machine learning model to predict future inventory needs
- Constructed "Buy 'Til You Die" model describing customer return likelihood using Lifetimes package

EDUCATION

University of Colorado Boulder · Boulder, Colorado

Expected Dec. 2019

Ph.D. - Mathematics

M.A. - Mathematics

University of Maryland, Baltimore County · Baltimore, Maryland

May 2009

B.S. Summa Cum Laude

Major-Mathematics, Minors-Economics & Spanish

Flatiron School · Washington D.C.

June 2019 - Sep. 2019

Immersive Data Science Fellowship