BRITTANY CITY

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PERSONAL PROFILE

Versatile analyst that is passionate about working with large amounts of data to deliver insights for action-oriented solutions to complex biological, social, political, and economic problems.

SPECIALIZATIONS

- **Quantitative Analysis:** Calculus, Linear Algebra, Statistics, Excel
- **Languages:** Python, R, SQL
- **Libraries:** Pandas, Numpy, Plotly, Matplotlib, Bokeh, Seaborn, Ggplot2, BeautifulSoup, Scikit-learn, Reshape2, NLP
- **Machine Learning**: Linear Regression, Logisitic Regression, Decision Trees, Random Forest, K-means Clustering, Deep Learning using Tensorflow (Keras)
- **Version Control:** Git, Github
- **Web:** HTML, Wordpress

CORE SKILLS

- Communication and Presentation
- Project Management
- Time Management and Organization
- Analytical and Research Skills

EDUCATION

Nashville Software School
Data Science Bootcamp
2019-2020

Xavier University of Louisiana
B.S. in Biology/Chemistry
2010-2014

CAREER HISTORY

NASHVILLE SOFTWARE SCHOOL
Data Science Bootcamp | August 2019 - June 2020

DATA SCIENCE PROJECTS

Color of Coronavirus: A Natural Language Processing Approach to Examining African/African American Coronavirus Research

• Applied NLP to over 47,000 coronavirus-related publications and pre-prints to examine African/African American coronavirus-related research to identify areas where research is needed and provide a summary of findings from research completed to date.

What is Good Music? An In Depth Analysis of Grammy Award Winners and Billboard Hot 100 Songs over 60 Years

• Used Python for web scraping and R to explore 60 years of Grammy and Billboard data to identify if Billboard charting leads to Grammy success.
R Shiny App Link: https://brittany-city.shinyapps.io/what-is-good-music

Tennessee Department of Education Predictive Modeling

• Utilize R to investigate Tennessee education data from 2012-2013. Project goal was to build a model to predict graduation rates by county. Worked with a team to analyze 40 education factors across over 900,000 students.
Project Highlight: Developed models to identify which factors were the greatest predictors of graduation rate.

VANDERBILT UNVERSITY MEDICAL CENTER

Health Policy Services Analyst | May 2017 - PRESENT

• Responsible for obtaining data for processing, analysis, and reporting of clinical outcomes for 25,000 participants after receiving genetic results.
• Project management of Vanderbilt bioinformatics projects from research design to algorithm development to data output quality assurance.
• Provide technical research support to those completing research in the All of Us Research Program Workbench (a tool similar to Jupyter notebook to apply Python, R, and SQL).

Patient Relations Specialist | July 2016 - May 2017

• Conducted qualitative and quantitative interviews of VUMC patients to gather and analyze data on patient attitudes toward hospital environment and care received at facilities to generate weekly and monthly reports.

ST. THOMAS HOSPITAL PATHOLOGY ASSOCIATES

Laboratory Research Analyst | May 2014 - July 2016

• Prepared human tissue and specimens for complex procedures including processing, paraffin embedding, and DNA extraction.
• Evaluated and interpreted collected experimental data using Excel to prepare reports and analyses of progress and trends.