BARRETT ROGERS

Data Analyst

CONTACT

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SKILLS

- Python
- Neo4j
- Epic
- R
- Excel
- REDCap
- SQL
- PowerPoint
- Public Speaking

PROJECTS

· A Round-Up of Disease In America: Pesticides and Their Influence On Cancer

Considering that millions of acres in the U.S. are sprayed with Round-Up each year, should we be concerned about any potentially carcinogenic effects? Diving into the USDA data and building an R-Shiny App to graphically illustrate agro-chemical effects on human health, this very question was addressed. The product is a tool which can compare the amount of Round-Up applied in different states, crops, and years ranging from 1996 to 2016. The R-Shiny App can also directly compare age-adjusted rates of Non-Hodgkin Lymphoma (the most common type of cancer caused by Round-Up) to the amount of Round-Up applied in each state per year. This data was retrieved from the CDC Wonder database.

· Dollar General Literacy Foundation Hackathon

The Literacy Foundation awards funding to organizations that provide direct services to adults in need of literacy assistance. Students across the Nashville Software School collaborated for three days to create a ranking system for grant applications to streamline the awarding of community aid. This effort produced a web app which is able to show the approximate address of each applicant because their proximity to a Dollar General Store is relevant, and show how they rank among other applicants. The app has additional filters based on the quality of the application to give the grant team even more functionality.

ACADEMIC BACKGROUND

Nashville Software School

Data Science Bootcamp, Sept 2019 - June 2020

· Well-versed using platforms for analysis such as Jupyter Notebook and RStudio as well as data sharing platforms like GitHub.
· Leveraging many useful packages in Python including pandas and scikit-learn as well as graphing data with seaborn, Plotly, and tidyverse in R.
· Experienced in data cleaning and working with large datasets via SQL.
· Currently working on machine learning projects which are teaching the importance of feature engineering and a deep understanding of model selection.

Western Kentucky University

B.S. Biology, Aug 2012 - May 2016

· Learned proper methods for documenting the data collection process and obtained a healthy understanding of how critical it is to report findings accurately.
· Gained experience presenting research findings at several local and state conferences such as the Kentucky Honors Roundtable.
· Created data visualizations for research posters for use during conferences.

WORK HISTORY

Operations Manager

Resolution Eye Care, April 2019 - Present

· Founding team member of a Nashville start-up.
· Work with patients to arrive at the best course of action for their specific vision needs.
· File all associated insurance claims.
· Troubleshoot any software or business management systems whenever necessary.
· Create reports for business purposes using Python and Excel

Clinical Trials Associate II

Vanderbilt University Medical Center, Aug 2017 - Feb 2019

· Primarily worked in the emergency department as a team member for pediatric infectious disease research.
· Educated patients on the value of research and encouraged them to participate to improve medical practices.
· Conducted surveys and collected samples which would become data points for the CDC.
· Screened patients for the study using Epic and recorded patient-interactions on REDCap on a daily basis.

INTERESTS

Public Health, Environmental Issues & Art.