

KELLY SLATERY

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Data Scientist

SKILLS

- | | | | |
|-------------------------------|----------------|------------------------|------------------------------|
| - Machine Learning | - Python | - Pandas | - Statistical Analysis |
| - Neural Networks | - SQL | - Matplotlib / Seaborn | - Scikit-learn / StatsModels |
| - Natural Language Processing | - Web-scraping | - Git / GitHub | - Time Series Analysis |

Languages: **English** (Native Language); **Spanish** (Professional, 7 / 8 on the Avant STAMP 4s assessment); **Mandarin Chinese** (High Intermediate)

PUBLICATIONS & PROJECTS

Towards Data Science: “Decision Trees: Understanding the Basis of Ensemble Methods” *March 2020*
Musical Recommendation System *March 2020*

- Created a musical recommendation system based on a short user input describing their mood
- Scraped and cleaned data using requests, BeautifulSoup, Selenium, and NLP (spaCy), applied clustering methods to evaluate recommendations, exported final system using a Python script, Flask, HTML, CSS
- Self-taught spaCy functionality and architecture; Built first locally hosted interactive website

Optimizing Evacuation Routes Using Real-Time Traffic Information *February 2020*

- Mapped road closures identified from Twitter data during Hurricane Harvey on a team of three
- Predicted tweets with road closure information with 99.7% accuracy, cleaned data with NLP (regex, vectorizers), grid-searched various machine learning models, mapped final predictions in Tableau
- Worked with Twitter API to gather over 100,000 tweets; Exported final model with pickle module

Classifying Subreddit Posts: The Beatles vs. Queen *January 2020*

- Classified sub-Reddit posts as the Beatles or Queen and identified fanbases' differentiating language
- Scraped and cleaned 40,000 sub-Reddit posts using Reddit Pushshift API and NLP methods (nlTK)
- Applied machine learning to language data, grid-searching 13 pipelines to achieve 85.5% accuracy

PROFESSIONAL EXPERIENCE

General Assembly Data Science Immersive *Berkeley, CA*
Instructional Associate *April 2020 – present*

- Facilitate data science review sessions and provide structured feedback and support to students

Fulbright Taiwan, Foundation for Scholarly Exchange *Taitung, Taiwan*
English Teaching Assistant *August 2018 – July 2019*

- Co-planned and co-taught 18 English classes per week with a local English teacher
- Developed relationships with the community through a new school running club and local English group

Augmentative and Alternative Communication Lab *Charlottesville, VA*
Research Assistant *January 2017 – May 2018*

- Elected to lead the team in the writing and editing of our final research report, currently in review
- Collaborated with a team of five to design, execute, and analyze data from semester-long research study concerning the best teaching method for Minspeak™ communication boards

EDUCATION

General Assembly, Washington, D.C. *December 2019 – March 2020*
Data Science Immersive

University of Virginia, Charlottesville, VA *August 2014 – May 2018*

B.A. Cognitive Science (concentration: Linguistics) & East Asian Studies

GPA: 3.94/4.0; Phi Beta Kappa, Spring 2017 (top 4%); Raven Society, Fall 2016

Relevant Coursework: Intro to Programming, Software Development Methods, Research Methods & Data Analysis I, Honors Calculus III, Discrete Mathematics, Neural Basis of Behavior, Intro to Cognition