Vahideh Rasekhi, Ph.D. | Linguist & Data Scientist

✉ vrasekhi@gmail.com   in linkedin/vahidehrasekhi   📱 631-599-8516   ⬤ github/vahidehrasekhi

EXPEREINCE

Data Science Apprentice   **September 2021–June 2022**
Nashville Software School

- Currently using NLP and Machine Learning models to detect hate speech on Twitter. Preprocessing three publicly available datasets with a total of 300,000 tweets, using a combination of multiple feature extraction techniques and different classification models to determine which model outperforms the others in detecting hate speech.
- Created an RShiny application to analyze sentiment of people in the US and world towards Covid vaccination. Used PyCharm to stream tweets using Twitter API. Used Python, R, and Vader Sentiment Analysis model to analyze 5,000,000 tweets to determine whether people have a positive or negative sentiment towards the vaccination.
- Automated (using Spacy, NLP models) extraction of information from a company's 30 10-K filling forms in HTML format.
- Tokenized (using NLTK library) the top 50 most downloaded books from Project Gutenberg, found their *jaccard* and *cosine* similarity, created word vectors, and applied different *N-gram* probability models to predict the next word in a sentence.

Researcher and Lecturer   **2010–2021**
Department of Linguistics, Stony Brook University and UCLA

- Designed and conducted research studies on syntax, language processing, phonology & phonetics, sociolinguistics.
- Collected data, conducted qualitative and quantitative data analysis in R.
- Presented findings at 20+ conferences, published them, have been cited by other researchers in the field 60+ times.
- Created curriculum, taught 25 undergraduate and graduate courses, designed assessment and evaluation materials.
- Trained, mentored and supervised over 20 graduate and undergraduate teaching and research assistants.

Alumni Engagement and Data Analytics Coordinator   **2017–2018**
Advancement, Stony Brook University

- Coordinated programs and events that engage more than 200,000 alumni worldwide.
- Updated and managed portfolios of prospect donors, started the *Grateful Patient* fundraising program, identified 500+ prospects and raised more than $1.22M in major gifts and $185K in annual giving.
- Revised and edited two alumni manuals to make the information up to date and more accessible to the members.
- Assessed alumni's experience, designed a survey, collected data, conducted qualitative/quantitative data analysis in Excel.
- Communicated the results to administration and alumni in a report, brought back 10% more alumni to the campus.

Elected President of Graduate Student Organization   **2015–2017**
Stony Brook University

- Represented graduate student body (8500 students) from different disciplines at local and national levels.
- Successfully led the efforts at the university to increase graduate students' annual stipend by 10%.
- Liaised with the state and federal elected officials including Senator Chuck Schumer (D-NY) and former VP Joe Biden.
- Proposed initiatives on higher education, increasing federal research funding, DACA, immigration reform.
- Managed $500,000 annual budget & supported students' research/professional development, social/cultural activities.
- Organized/hosted talks by raising $100,000 from offices on campus, congregated 3000 university members/stakeholders.
- Supervised and mentored 4 board members, 3 staff, and 80 graduate student representatives from different departments.

SKILLS

Technical: Python, R, SQL, NLP, Machine Learning, Microsoft Office, Excel, OS, Git, LaTeX, Ibex Farm, Praat
Languages: English (native like), Persian (native), Azeri (native), Standard Arabic (structural)

EDUCATION

Data Science Bootcamp   **September 2021–June 2022**
Statistics for Data Science   **July 2021-August 2021**
Nashville Software School, Tennessee

Ph.D. in Linguistics   **May 2018**
Stony Brook University, New York