

+ projects

Public Health: Socioeconomic Factors in Infant Mortality

Analyzed county-level data for over 240 features across ten years. Used a regularized Linear Regression model to help identify the most significant features related to Infant Mortality.

Meta-Research: Topics in Cancer Stem Cell Research

Performed topic modeling on 70,000+ Cancer Stem Cell papers from 1980 to 2017 to reveal historical trends of research topics/techniques on a year-to-year basis using word vectorization and clustering with Non-negative Matrix Factorization (NMF).

Research: Automatic Determination of Cancer Gene Classes

Used word embedding on annotated genetic variant database to classify 9 categories of cancer pathogenicities. Resampled data using SMOTE and oversampling, used Naive Bayes and Logistic Regression to reach 78% accuracy.

Public Health: Consumers vs Professionals

Acquired Yelp reviews and Health Inspection results on 100,000+ restaurants in New York City, used Linear Regression to determine if/which health code violations were correlated with consumer reviews.

+ experience

Data Scientist 2017 to 2017

Metis

Metis is an immersive data science bootcamp that combines real-world projects with on-site instruction to develop skills in statistical analysis, machine learning algorithms, feature engineering, advanced database management, and data communication and visualization.

Rutgers - Office of Advanced Research Computing Newark, NJ Data Analyst - Intern

2016 to 2017

Pulled, cleaned, and used NLP techniques on Tuberculosis gene mutation data to create a search engine to allow search by related features of gene mutation descriptions.

Tactile Navigation Tools

New York City, NY

New York City, NY

Engineering Technician 2014 to 2015

Wrote and won a grant for \$25,000 from the Promobilia Foundation to fund the research, development, and testing of medical devices to aid the visually impaired. Worked on two projects simultaneously:

- -Eyeronman Vest: Oversaw technical team of 3-5 built Proof of Concept and 2 iterative Prototype models.
- -CumbaCane: Acted as product manager went from developed Prototype model to the final Market model.

AA Wendon LLC

New York City, NY

Medical Transcriber 2011 to 2014

Transcribed medical reports for outpatient cardiology diagnostic/imaging centers and personally located, communicated with, and negotiated deals with centers/radiologists for services.

At peak, was transcribing several hundred reports per months.

+ summary

Data Scientist with roots in healthcare and medicine, and 5 years of experience working at startups. Looking to pivot from analyzing data as a scientist to using machine learning and deep learning in industry.

+ skills

Microsoft Office: Word, Excel, Powerpoint, Access

Programming Languages/Tools: Python, Pandas, scikit-learn, SQL, PostgreSQL, MongoDB, Amazon Web Services, Spark Data Visualization: matplotlib, Seaborn, D3. Bokeh

Machine Learning: See Projects Natural Language Processing: See Projects

+ education

2017

Rutgers University, Graduate School of Biomedical Sciences Masters Biomedical Sciences

Washington University in St. Louis
B.A. Economics 2012