Jenny Rhee

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Skills

Languages/Tools Python (NumPy, pandas, matplotlib, seaborn, SciPy, scikit-learn), SQL, Git, Tableau, Java, MATLAB, Excel

Technical Skills Supervised and unsupervised machine learning, experimental design, A/B testing, web scraping, statistics, NLP

Projects

Predicting flood events in Louisiana

- Used two NOAA data sets (severe storm events and meteorological) to train a random forest model to predict flood events in Louisiana with forecast data.
- Technologies used: Python (pandas, NumPy, pandarallel, seaborn, matplotlib, BeautifulSoup, requests, SciPy, scikit-learn), SQLite

Experience

Marketing Analyst Lafayette, LA

WAITR *November 2019 to present*

- Assisted in designing A/B tests and analyzed results to optimize marketing campaigns
- Created a marketing dashboard to track weekly KPIs and wrote a script to automate complex data retrieval
- Identified an approximately $1M per year stream of cannibalized revenue from coupon fraud
- Analyzed the order behavior effects of a loyalty program (+200% average orders per year) leading to program redesign with the goal of increasing customer penetration and engagement
- Researched restaurants not yet on the platform and scraped data that was necessary for restaurant acquisition efforts
- Technologies used: Python, AWS Redshift, PostgreSQL, Tableau, Sisense

Research Associate Baton Rouge, LA

LOUISIANA STATE UNIVERSITY *June 2019 to November 2019*

- Compiled data from various sources to build an econometric model to analyze the effects of driving forces on a variety of environmental impacts in the U.S. and Germany over the past two centuries
- Developed a simulation model in Python to illustrate the relationship between embodied energy and fitness of a K-selected species
- Technologies used: Python, Excel

Data Analyst Intern Lafayette, LA

ACADIAN AMBULANCE *Aug 2018 to May 2019*

- Led the first data science projects to be conducted at the company
- Exploratory analysis (clustering via scikit-learn and topic modeling via Gensim and MALLET) of rejected medical records to categorize and understand the common reasons for rejection
- Analyzed the "virality" of medics with low medical documentation accuracy on their partners with the goal of changing training procedures
- Technologies used: Python, T-SQL, Microsoft SQL Server

Great Lakes Summer Fellow Ann Arbor, MI

UNIVERSITY OF MICHIGAN *May 2018 to Aug 2018*

- Developed a data processing script in Python to normalize historical time series data from 15 stations and buoys in the Great Lakes (2015-2017; 196 million observations)
- Proposed a data management solution for 15 stations and buoys in the Great Lakes. Data were in inconsistent formats and units over time and between stations, ranged over a decade, and stored as flat text files on a server.
- Designed and implemented a time-series database (TimescaleDB) prototype to manage historical and real-time streaming data
- Technologies used: Python, TimescaleDB

NSF REU Fellow Dauphin Island, AL

DAUPHIN ISLAND SEA LAB *May 2017 to Aug 2017*

- Won 1st place in the REU poster symposium, awarding full funding to present research at Ocean Sciences Meeting in Portland, OR
- Collaborated with a physical oceanographer and biological oceanographer to design an experiment using historical data
- Processed, sanitized, and compiled several years (2009-2012) of CTD data from 15 stations
- Calculated Model-I linear regressions and statistics to make novel conclusions about the Mobile Bay to shelf transect
- Technologies used: MATLAB, SeaBird SBE Data Processing, Excel

Education

Data Science Career Track, Certification Online

SPRINGBOARD *July 2019 to present*

- Intensive course in data science, data visualization, machine learning, hypothesis testing, Python, SQL, and Spark

Bachelor of Science in Biology Lafayette, LA

UNIVERSITY OF LOUISIANA AT LAFAYETTE *May 2018*

- Relevant coursework: Advanced Data Structures and Software Engineering, Linear Algebra, Calculus I and II