MADELINE VOSSBRINCK

DATA SCIENTIST

CONTACT

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SKILLS

MACHINE LEARNING: Regression, Classification,
Natural Language Processing
PROGRAMMING: Python, SQL, SAS, R
DATA VISUALIZATION: Tableau, Matplotlib, Seaborn
DATA MANAGEMENT: Postgres, Report Building, Data Warehousing, Git
LIBRARIES AND FRAMEWORKS: Pandas, NumPy, BeautifulSoup, Selenium, Scikit-learn, NLTK, CorEx, vaderSentiment, SciPy

EDUCATION

Harvard Business School Online
Certificate Management Essentials
2020

Columbia University Mailman School of Public Health
MS Biostatistics 2014

Skidmore College
BA Mathematics 2011
BA International Affairs 2011

VOLUNTEERING

Charity Water
July 2015 to June 2016 · New York, NY

- Developed analysis plans for survey data to identify sites needing intervention
- Cleaned and categorized data in preparation for analysis

EXPERIENCE

Metis — Remote
Data Scientist — Jan. 2021 to Mar. 2021

Completed a 12-week immersive data science bootcamp with a focus on Python programming, data engineering, machine learning, and communication over the course of five projects. **See Projects section below for more details.**

The Trade Desk — New York, NY
Business Intelligence Analyst — Oct. 2017 to Dec. 2020

- Developed and managed feedback for Tableau dashboards for client facing users (hundreds of employees) that drilled down on customer spend, campaign pacing, and feature usage
- Created dashboards for internal teams such as product and inventory partnerships
- Built out SQL queries to link dozens of data sources, many which had millions of rows
- Gave presentations on Tableau dashboards across the organization, including to C-level executives
- Ran analysis on products and features to measure adoption and effectiveness and communicated results to stakeholders
- Completed detailed ad hoc requests in a timely manner

Montefiore Medical Center/FDNY — Brooklyn, NY
Data Analyst — July 2014 to Oct. 2017

- Collaborated on multiple cohort studies to measure and report health outcomes in multiple publications
- Communicated the goals of Montefiore's data warehouse projects to external contractors
- Coordinated new projects in data warehouse to enable faster, more detailed reporting

PROJECTS

Chess Move Recommendation App

- Utilized a min max heuristic algorithm with alpha beta pruning as baseline move prediction, and built a neural network model for advanced move prediction
- Created a Flask app that allows users to dynamically input chess board layouts and receive move recommendations

Parks and Recreation Natural Language Processing

- Examined trends in positive sentiment using vaderSentiment across each season of Parks and Recreation for the characters Leslie Knope and Ron Swanson, both as individuals and in the conversations between them
- Utilized CorEx topic modeling to discover words in the dialogue associated with the word 'government'

Predicting Wildfire Size

- Built various classification models (logistic regression, KNN, random forest, XGBoost) to find the best way to predict if a wildfire will burn at least 10 acres before containment
- Created Tableau map visual with custom icons to display fire locations

New York Times Recipe Ratings

- Scraped website data using BeautifulSoup, Selenium, and Extruct
- Built linear regression models to predict the number of ratings a recipe on the New York Times cooking website will receive