MEGHA JAIN

Selected Experience

DoSomething.org
Data Scientist
New York, NY
Oct. 2018 to Current

- Perform analyses to support decision-making across the marketing, campaigns, and product teams, from analyzing web event data to understand user journeys to conducting a deep dive on user mobile engagement.
- Work closely with the data engineering team to build out the underlying data infrastructure and enhance data collection procedures.
- Help teams break down high-level KPIs, such as retention, into tactic-specific metrics in order to measure the success of their efforts.

Lotik Labs at Samsung Next
Data Scientist
New York, NY
Mar. 2017 to July 2018

- Developed models to predict water flow and identify leaks at point-of-use as part of a 2-3 person team, through researching and leveraging signal processing theory and machine learning (palladium/scikit-learn/Theano) techniques.
- Designed data collection procedures to build a unique data corpus marrying water flow to triaxial accelerometer data using a raspberry pi and inline flow meter.
- Analyzed and visualized sensor performance data using matplotlib and Bokeh as required to support business development, firmware engineering, and software engineering teams.
- Supported constructing data pipelines to automatically consume, clean, and load sensor data into a Postgres database for use in our API and backend modeling efforts.

Urban Green Council
Research (Multiple)
New York, NY
Jan. 2015 to Aug. 2016

- Contributed to the writing and analysis of the NYC Mayor's Office of Sustainability's fourth benchmarking report with topics including identifying trends in energy and fuel use and analyzing the impact of steam distribution on energy use.
- Provided data analysis and research support for policy proposals to update the New York City Energy Code.
- Researched case studies and worked with website developers and the communications team to accurately report and depict summary statistics.

German Academic Exchange Service (DAAD)
Research Fellow
Berlin, Germany
Oct. 2013 to Aug. 2014

- Awarded a fellowship to conduct research in Berlin and served as a research assistant to the India-Europe Multilevel Climate Governance Network.
- Organized a research conference bringing together 25 researchers from Germany, the Netherlands, and India to discuss governance and transitions to a low-carbon economy.

ICF International
Research Assistant
Washington, D.C.
Dec. 2012 to Aug. 2013

- Analyzed unit shipment data from 1000+ manufacturer partners to determine the market penetration of the U.S. Environmental Protection Agency's (EPA) ENERGY STAR products.
- Supported the development of an online tool for consumers to access information on ENERGY STAR qualified products.
- Developed standard operating procedures to address key program challenges, e.g., communicating eligibility requirements to 1000+ partners and 10+ certification bodies.

Projects

Metis: Data Science Bootcamp
Sept. 2016 to Dec. 2016

- Conducted a predictive analysis to determine whether extreme weather events will be declared FEMA emergencies and documented their occurrences in a D3 map.
- Produced a flask app that aggregates art exhibits taking place within the New York metro area and recommends related exhibits based on their press releases.
- Used natural language processing to track how the conversation around climate change has evolved over time and across US regions visualizing the results in a D3 interactive dashboard.

Contact

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Education

University of Pennsylvania
BA International Relations, Sustainability and Environmental Management 2012
GPA: 3.94/4.0, Phi Beta Kappa, Summa Cum Laude

Skills

DATA SCIENCE
Python
Scikit-Learn
Pandas
Natural Language Processing (NLP)

DATABASE
PostgreSQL

DATA VISUALIZATION
Matplotlib
Seaborn
D3.js
Bokeh
Looker (BI tool)

LANGUAGE
Spanish

Activities

PyData NYC · Organizing Committee
Aug. 2018 to Current
Assist in organizing a yearly 300-person conference that draws an international community of data enthusiasts and professionals to share and discuss best practices, new approaches, and emerging technologies within the data science community.