Dawn Graham

Data Scientist

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Selected Experience

Data Scientist / Aug 2021 - Present
BOSTON UNIVERSITY CENTER FOR ANTIRACIST RESEARCH (ANTIRACIST TECH INITIATIVE), BOSTON, MA

Work closely with research teams to design and implement rigorous research. Construct, validate, and create documentation for large datasets of structured and unstructured data from disparate sources. Conduct analyses and communicate findings to stakeholders using reporting, visualizations, and other means. Develop and implement processes and systems to optimize operational efficiency. Support the development of other Antiracist Tech Initiative projects and partnerships.

Data Engineer / Jul 2019 - Aug 2021
MASSMUTUAL, BOSTON, MA

Focus areas include building and maintaining data structures and databases, data mining and warehousing, designing processing systems and algorithms, enabling machine learning, and security and compliance. Led a team of 12 to deliver a report with summary statistics, analysis, and visualizations of more than 20 years of data from the National Data Archive on Child Abuse and Neglect's (NDACAN) Adoption and Foster Care Analysis and Reporting System (AFCARS). Provided insights to our partner organization Citizens for Juvenile Justice to understand reasons for removal of children over time, by race, within Massachusetts. Automate processes and mentor junior data engineers. Member of MassMutual's Asian and Pride Business Resource Groups.

Data Science Fellow / Oct 2018 - Feb 2019
GENERAL ASSEMBLY, BOSTON, MA

Completed 480-hour immersive program to apply statistics, programming, data analytics, and modeling skills in different real-world contexts. Created a regression model to predict real estate sale prices. Used natural language processing to classify fake news headlines. Identified power outages through social media activity using time series analysis and natural language processing for a client project. Used web scraping, sentiment analysis, and regression modeling to identify predictors of active timebanks. Gained experience with clustering, decision trees, Bayesian inference, and more.

Media & Prevention Specialist / Oct 2015 - Oct 2018
WAYSIDE YOUTH & FAMILY SUPPORT NETWORK, WATERTOWN, MA

Developed and implemented environmental strategies related to HIV and substance misuse prevention at UMass Boston. Synthesized data from focus groups, surveys, events, and web analytics to derive understandings about programs, priorities, and actionable steps. Aligned Youth Risk Behavior Survey questions across four communities to improve insights between local, state, and national data. Facilitated high school peer leadership groups focused on youth empowerment, wellness, and racial equity. Trained youth in interpretation and ethical use of data.

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Education

Boston University / Master of Science in Computer Science, Data Analytics Concentration / 2022
/ Database Management & Business Intelligence Graduate Certificate / 2020