



CARA DAVIES

SKILLS

Data Visualization | Applied Statistics
Machine Learning | Data Mining
Survey Data Collection
Python | Power BI | SQL

EDUCATION

B.A., FRENCH & POLITICAL SCIENCE

University of Louisville
2004 - 2008 | Summa Cum Laude

M.A., SOCIOLOGY

Indiana University
2013 - 2015 | Summa Cum Laude

M.S., APPLIED STATISTICS

Indiana University
2015 - 2017 | Cum Laude

COURSES TAUGHT

INDIANA UNIVERSITY

S110: Understanding Social Data
2013-2017 | 3 Credit Hours

UNIVERSITY OF LOUISVILLE

MSBA 605: Programming for Analytics
2020 - Present | 1.5 Credit Hours

MSBA 620: Data Analytics I
2020 - Present | 3 Credit Hours

MBA 631: Introduction to Statistics
2020 - Present | 3 Credit Hours

MSBA 680: HR Analytics
2020 - Present | 1.5 Credit Hours

PROFILE

Senior Data Analyst experienced in leveraging corporate data as an asset to produce actionable insights. Equally skilled in developing complex statistical models as in explaining logic and use cases for non-technical business partners. Passionate about data literacy, data visualization and unconscious bias in AI and machine learning. A lifelong learner with the heart of a teacher.

EXPERIENCE

SENIOR DATA ANALYST, HUMAN RESOURCES

LOUISVILLE GAS & ELECTRIC | AUG 2019 - PRESENT

- Built interactive dashboards to inform human resources strategy at the highest levels, incorporating administrative records and employee opinion surveys using a variety of BI tools including Power BI, SQL, and Python
- Developed and deployed a predictive model for employee turnover, utilizing cutting-edge machine learning algorithms and maintaining a high level of accuracy in training and testing data
- Served as a consultant for teams across the department on various aspects of statistics, data processing, and data visualization, informing departmental best practices and supporting colleagues' business needs
- Led workshops on Python best practices and supported the company-wide analytics community

DATA ANALYST, MARKETING

HUMANA, INC. | NOV 2018 - DEC 2019

- Developed in-depth member profiles to inform marketing strategy for over 3 million Medicare members with data collected from across the enterprise, using a variety of BI tools including PowerBI, SQL, and Python
- Led projects relating to customer journey mapping, retention, and member engagement, ranging from simple nonparametric correlations in historic data to complex machine learning models predicting future outcomes
- Partnered across multiple lines of business to test a data-driven, bespoke communications experience for Medicare members, by providing power calculations to determine sample sizes, identifying leading and lagging indicators, and addressing data limitations

DATA ANALYST

EDJ ANALYTICS | FEB 2018 - NOV 2018

- Assessed client data from industries ranging from healthcare to banking and independently performed preliminary data cleaning and feature engineering necessary for building predictive models
- Managed large data sets with millions of observations, homogenizing variables using regular expressions and selecting key variables for model-building for both substantive and statistical reasons
- Developed illustrative examples of use cases for presentation to project stakeholders, including technical and non-technical audiences
- Worked collaboratively with other data analysts, data scientists, and project managers on multiple concurrent projects

RESEARCH ASSISTANT

INDIANA UNIVERSITY | AUG 2013 - MAY 2017

- Engaged in end-to-end data collection processes using qualitative and quantitative methods for three distinct research projects leading to peer reviewed publications; held supervisory responsibilities for 22 graduate and undergraduate student interviewers
- Analyzed quantitative data independently and as part of a research team, presenting results through both written publications and oral presentations