Benjamin Tanen

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Skills

Technical: Python (Pandas, numpy), R (Shiny, data.table, ggplot), JavaScript (D3, jQuery, Node, p5), SQL, SAS, Tableau, HTML5, CSS3, Excel / VBA, MATLAB, Git, Photoshop/Illustrator

Analytical: Clustering (k-means), outlier detection (Tukey, DBSCAN), classification (SVM, decision trees, k-NN), dimensionality-reduction (PCA), regression, optimization, data scraping and cleaning

Interpersonal: Team leadership and management, mentoring, research, critical thinking

Work Experience

Senior Analyst, Analysis Group (Boston, MA) June 2016 – August 2016, August 2017 – Present

- Conduct quantitative and qualitative analyses and visualizations using large, non-homogenous datasets, R, Python, SAS, and SQL to help clients better understand and use their data for cases involving healthcare economics, foreign exchange markets, and anti-competitive practices
- Lead teams of analysts, associates, and interns through analytical and research projects, working on a variety of workstreams in parallel while under tight deadlines
- Synthesize statistical findings and technical results into summaries and visualizations and present these along with actionable insights to internal teams and external clients
- Mentor new and tenured analysts and associates through analytical and technical issues, communication with senior staff, and presentations to clients

Select projects:

- Designed statistical models for pharmaceutical drug distributors to monitor millions of transactions and identify suspicious ordering of opioids and other controlled substances
- Developed interactive applications that enabled users to easily visualize and analyze prescribing trends for millions of drugs and physicians, saving consultants and clients hundreds of hours
- Scraped and analyzed data on thousands of inmates detained during the COVID-19 pandemic to identify unsafe imprisonment practices for inmates and the general public health

Academic Technology Fellow, Tufts University (Medford, MA) September 2014 – May 2017

- Designed, developed, maintained, and supported a variety of research and education-based technology tools to aid and foster teaching and learning at Tufts University
- Successfully built and integrated software and applications for teams and departments across the university including economics, cognitive sciences, philosophy, biology, and physics

Projects

Visualizations and Analyses on ben-tanen.com October 2014 - Present

- Created over 30 independent visualization and analysis projects to take insights and tell stories from a variety of political, music, media, and sports data, including:
  - Generating custom Spotify playlists using k-means clustering
  - Using support vector machines to distinguish an Oscar Best Picture from a box office hit
  - Assessing the accuracy of IBM Watson's fantasy football predictions
  - Creating automated tools in Python for optimizing my Spotify library and playlists
  - Analyzing how a congressional bill *doesn't* become a law (inspired by Schoolhouse Rock)

ASL-LEX December 2014 - May 2017

- Developed web application and lexical database of over 1,000 American Sign Language signs to help teach ASL to K-12 students, based on research from Tufts and BU graduate students
- Winner of Best Interactive Visualization from The National Science Foundation's 2017 Vizzies

Education

Tufts University - School of Engineering (Medford, MA) September 2013 - May 2017

Bachelor of Science in *Computer Science (Engineering)*
Minors in *Mathematics* and *Engineering Management*
GPA: 3.81 / 4.0, *summa cum laude*

Interests

Soul Music + Vinyl, Hockey, Filmmaking, Generative Art, Law & Politics, Spicy Foods, Design