Jake Rozran

Data Consulting & Adjunct Professor of Data Science

Havertown, PA 19083

(410) 231-9371 | jake@rleanalytics.com | jakelearnsdatascience.com | jrozra200 | jacob-rozran

Summary

- Passionate about coaching and teaching, leading teams, and diving into data to understand the meaning and nuance, all while being able to simply explain to all levels of the organization.
- Curious about the changing landscape of technology's impact on our lives and minds and especially curious about fair and ethical algorithms.

Top Skills & Technologies

PROFESSIONAL	LANGUAGES	DATABASES	APPLICATIONS
Data Analysis	R	Athena (AWS)	RStudio
Data Management	Python	BigQuery (Google)	Jupyter Notebooks
People Leadership	SQL	Hive/Impala (Hadoop)	GitHub
Project Management	Bash	SQL/mySQL/SQLite	Tableau
Data Ethics	HTML/MD	PostgreSQL	MS Office Suite

Experience

RLE Analytics *Philadelphia, PA*

Owner; Data Engineering & Analytics *Nov 2024–Present*

- Build the syllabus, lectures, assignments, projects, and tests for undergraduate Data Science, Intro to Statistics, and Intro to Statistics for Biology courses.
- Elected to Faculty Congress, filling the At-Large Adjunct seat.
- Advise and mentor students by writing recommendations for various programs, helping guide studies for real-world success after graduation, and providing assistance through the stresses of university life.
- Frequently serve as a guest lecturer for the Mathematics and Statistics department on what it is like to be a data professional in industry.

Villanova University *Villanova, PA*

Adjunct Professor of Data Science & Statistics *Aug 2020–Present*

- Build the syllabus, lectures, assignments, projects, and tests for undergraduate Data Science, Intro to Statistics, and Intro to Statistics for Biology courses.
- Elected to Faculty Congress, filling the At-Large Adjunct seat.
- Advise and mentor students by writing recommendations for various programs, helping guide studies for real-world success after graduation, and providing assistance through the stresses of university life.
- Frequently serve as a guest lecturer for the Mathematics and Statistics department on what it is like to be a data professional in industry.

Comcast *Philadelphia, PA*

Senior Manager of Data Science *Jan 2023–Nov 2024*

- Manage a data science team of four that is responsible for the creation, analysis, and maintenance of multiple customer facing machine learning models that improve and monitor the reliability of Comcast's Network.
- As a player/coach, I spend part of my day coding and doing analysis and part of my day providing team leadership.
- Work closely with organization leadership, product managers, and outside organizations to identify and communicate priorities, statuses, and issues.
- Implement and continually revise best practices for data science and analytics workflows–improving peer and code review practices, time spent in meetings, and work prioritization.
- Meet regularly with the individual team members to receive feedback, provide coaching, and understand member's goals.
- Member of the organization's DE&I team
- Tools used: R/RStudio, Python/PySpark/Jupyter Notebooks, AWS: Athena/Glue/Redshift, Tableau

CivicActions   *Lafayette, CA*

D ATA S CIENCE P RACTICE L EAD   *Feb 2021–Jan 2023*

- Built a Data Science Practice Area with > $1MM revenue after 12 months; personally focused on data science, people management and coaching, sales, marketing, and project management.
- For the Centers for Medicare & Medicaid Services (CMS), leveraged Natural Language Processing (NLP) in the creation and evaluation of System Security Plans (SSPs) to optimize the Authority to Operate (ATO) process; analyzed AWS usage to forecast annual usage and identify inefficiencies; used graph analysis and NLP to identify related documents to provide enhanced search capabilities.
- As the first data science teammate on each project I supported (and at the company), I had to focus on explaining the capabilities of our team and iteratively working with clients to understand their needs and providing relevant analysis.
- Internally, I worked hand in hand with our marketing, program management, and sales teams to identify new opportunities for our data science practice area; externally, on each project, I worked closely with our clients, product owners, engineering teams, and design teams.
- One of five members of the company's Diversity, Equity, Inclusion, and Accessibility (DEI) team; responsible for helping improve the company's DEI practices, including analyzing demographic data, designing surveys to understand company feeling about DEI, and identifying and improving company policy to be more inclusive.
- Accessed data from AWS Athena (at CMS) and ClickHouse (internal data). Utilized Python for NLP projects and R to build Shiny Dashboards and complete bespoke analysis (mainly in RMarkdown documents).

Socure   *New York, NY*

S OLUTIONS C ONSULTANT   *Jan 2020–Feb 2021*

- Technical expert on fraud prevention, Know Your Customer (KYC)/Customer Identification Program (CIP), Socure product modules, data science, statistics, and data visualization in support of the sales and onboarding processes.
- Created custom proof-of-concept (POC) analyses for prospective customers–showing the value of Socure versus their current solution(s).
- Served as the Growth Team's subject matter expert (SME) on data science, creating educational documents and presentations on challenging topics like Area Under the Curve (AUC), false positives, and other model evaluation criteria.
- Worked with the Marketing Team to create content for the Socure Blog on machine learning techniques.
- Member of the DEI team.

Xfinity Mobile Risk Management (Comcast)   *Philadelphia, PA*

M ANAGER OF D ATA A NALYTICS   *Mar 2017–Jan 2020*

- Led and managed the data analytics and engineering team for Xfinity Mobile Credit Risk Management, including hiring and training of staff analysts and engineers, collaborating with and providing analysis for stakeholders, and tracking and prioritizing all team tasking.
- Invented, designed, and put into production a fraud decision making tool that was responsible for a decrease in month-over-month fraud losses by 92% in 2018–this tool was implemented while our team dealt with procurement and staffing issues.
- Built and maintained the executive reporting packages for both fraud and credit risk management.
- Provided coaching, leadership, and mentorship to all analysts on the Xfinity Mobile Risk Management team.
- Worked closely with product, engineering, and operations teams to handle all aspects of risk management decision making (fraud and credit).
- Leveraged, maintained, and created tables in both Impala (Hadoop) and Oracle. Built a fraud decision making tool that combines custom feature creation, statistical and business rules, and predictive models built in Python, R, and Bash.

Additional work experience is outlined on my LinkedIn Profile.

Volunteer

Govern for America   *Katonah, NY*

R ESIDENT D ATA S CIENCE E XPERT   *Apr 2022–Jan 2023*

Data Jawn Conference   *Philadelphia, PA*

O RGANIZER   *Apr 2019–Aug 2019*

Education

Villanova University   *Villanova, PA*

M ASTERS OF S CIENCE –A PPLIED S TATISTICS   *2015–2017*

Drexel University   *Philadelphia, PA*

B ACHELORS OF S CIENCE –B USINESS & E NGINEERING   *2004–2009*