Jake Rozran

SENIOR MANAGER OF DATA SCIENCE & ADJUNCT PROFESSOR OF DATA SCIENCE

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Summary

- Data & technology professional with 9+ years of real-world experience (at Fortune 10, start-up, and consulting companies) in data science and analytics (using R and Python).
- 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

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

Experience

Comcast
Philadelphia, PA

SENIOR MANAGER OF DATA SCIENCE — *Jan 2023 - Present*

- 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 recieve feedback, provide coaching, and understand member's goals.
- Tools used: R/RStudio, Python/PySpark/Jupyter Notebooks, AWS: Athena/Glue/Redshift, Tableau

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.
- 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 Stastics department on what it is like to be a data professional in industry.

New America
Washington, DC

PUBLIC INTEREST TECHNOLOGY - UNIVERSITY NETWORK (PIT-UN) EVALUATION COMMITTEE — *June 2022; June 2023*

- Evaluated proposals seeking funding to educate students who can better apply technical understanding and practice to questions of individual rights, justice, social welfare, and the public good, particularly for those members of our society least well served historically and today by existing systems and policies.

CivicActions

Lafayette, CA

DATA SCIENCE PRACTICE LEAD

Feb 2021 - Jan 2023

- Building 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 of Medicare and Medicaid (CMS), leveraging Natural Language Processing (NLP) in the creation and evaluation of System Security Plans (SSPs) to optimize the Authority to Operate (ATO) process; analyzing AWS usage to forecast annual usage and identify inefficiencies; using graph analysis and NLP to identify related documents to provide enhanced search capabilities.
- As the first data science teammate on each project I have supported (and at the company), I have 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 work 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 work closely with our clients, product owners, engineering teams, and design teams.
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- One of five members of the company's Diversity, Equity, Inclusion, and Accessibility (DEIA) team; responsible for helping improve the company's DEIA practices, including analyzing demographic data, designing surveys to understand company feeling about DEIA, and identifying and improving company policy to be more inclusive.
- Accessing data from AWS Athena (at CMS) and ClickHouse (internal data). Utilize Python for NLP projects and R to build Shiny Dashboards and complete bespoke analysis (mainly in RMarkdown documents).

Socure

New York, NY

SOLUTIONS CONSULTANT

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

MANAGER OF DATA ANALYTICS

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.

Internet Services Engineering (Comcast)

Philadelphia, PA

SENIOR DATA ANALYST

Sep 2014 - Mar 2017

- Designed and built predictive models, which improved compromised user account detection times and discovery accuracy – this work was presented internally along with several internal blog posts about the effort.
- Created forecasts of user base growth and project completion.
- Worked closely with the product, project, and engineering teams to identify and correctly prioritize analyses.
- Obtained data from Splunk using the Splunk Query Language. Utilized R and Python to build and interpret Logisitic Regression Models.

Additional work experience is outlined on my LinkedIn Profile.

Volunteer

Govern for America

Katonah, NY

RESIDENT DATA SCIENCE EXPERT

April 2022 - Jan 2023

- Provide training and mentorship in data science, data visualization, and data ethics for GFA fellows.

Data Jawn Conference

Philadelphia, PA

ORGANIZER

April 2019 - August 2019

- Assisted in promotion, speaker selection, and day-of-event logistics for the Data Jawn, a Philadelphia data conference highlighting the great work of our local data commnuity.

Montgomery County Public Defender   *Norristown, PA*

<small>DATA ANALYST</small>   *May 2016 - Jun 2017*

- Assisted Montgomery County Public Defender to define an analytics strategy to support competitive salaries and fair defence for all Montgomery County residents; created, built, and maintained advanced analysis.

Education

Villanova University   *Villanova, PA*

<small>MASTERS OF SCIENCE - APPLIED STATISTICS</small>   *2015 - 2017*

Drexel University   *Philadelphia, PA*

<small>BACHELORS OF SCIENCE - BUSINESS & ENGINEERING</small>   *2004 - 2009*

- Drexel Representative for Student Lobbying Day in Harrisburg, PA, 2009
- Drexel University Traditions Council Treasurer, 2007 - 2009
- Dean's List, 2006, 2008
- Drexel Representative to Colonial Athletic Association's Student Athlete Advisory Committee, 2006
- Drexel University Varsity Soccer Player, 2004 - 2006