

# Roni Kobrosly Ph.D.

📞 1-512-965-0601 | ✉️ roni.kobrosly@gmail.com | 🏠 www.kobrosly.net | 📺 ronikobrosly | 📺 ronikobrosly

## Data Product Management and Leadership

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- 3+ years of product/project management and 2+ years people management.
- Management expertise working with multiple cross-functional teams and coordinating resource allocation.
- Advisor and mentor with successful track record for employee training and career advancement.
- Extensive experience interviewing for data science roles (Insight program) as well as many internal team hires.

## Relevant Work Experience

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### Flowcast

Austin, Texas

SENIOR MACHINE LEARNING ENGINEER

February 2020 - present

- Planned and developed core machine learning and calculations for **Tillful**, Flowcast's new business credit scoring tool.
- Providing strategy in the development of an internal platform to enable faster data science project completion.
- Co-authored company's e-book on causal machine learning and taking lead role in evangelizing these methods across the company.

### Dia and Co

Austin, Texas

SENIOR MACHINE LEARNING ENGINEER

Oct 2018 - February 2020

- Led discussions on long-term project to improve warehouse operations, which increased available inventory by 9 percent. Implemented a mixed integer optimization algorithm and deployed to Amazon AWS.
- Planned and socialized a framework for Dia's first customer demand forecasting model.

### Charles Schwab

Austin, Texas

SENIOR MANAGER, DATA SCIENTIST

May 2016 - Sept 2018

- Managed multiple junior data scientists, included handling onboarding, HR concerns, and daily standups. Worked with interns to scope their projects and helped with troubleshooting.
- Replaced \$150k/year Ipsos social media brand health reporting with an in-house tool created in Python. Obtained data through Twitter and Reddit APIs and custom-made news scraping pipeline. Employed topic modeling, sentiment analysis, and anomaly detection algorithms.
- Completed other high-impact projects with HR, security, customer support, and client experience teams. Led engagement for each project, including helping shape project scope, coordinating directly with stakeholders, presenting results, and iterating.

### Insight Data Science

New York, New York

PROGRAM DIRECTOR FOR DATA SCIENCE

June 2015 - May 2016

- Provided strategic, product, and hands-on technical advising on Insight Fellows' data science and machine learning portfolio projects.
- Led two cohorts of the Data Science program, successfully mentored 60+ data scientists.
- Advised and scoped impactful data science projects for early-stage startups in a number of industries.
- Established and maintained relationships with hiring companies, to help grow data science and machine learning engineering teams.

## Side Projects

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### Orthopedic Diagnostic Tool

Washington, DC

LEAD AI ENGINEER

March 2020 - present

- Developing with two prominent DC-area orthopedic surgeons.
- Currently leading on all technical aspects of project. Designed project architecture and socialized it with medical colleagues.
- Interviewed, on-boarded, and currently managing contract engineers to build out the product.

## Technical Skills

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**Open-Source Contributor:** Creator and maintainer of **causal-curve**, a python package containing data science tools for causal inference.

**Languages:** Python, R, SQL (several flavors), HTML, Javascript, Scala, SAS, Stata.

**ML/AI:** Causal inference, Bayesian inference, deep learning (via Tensorflow and Keras), big-data/distributed computing via Spark, optimization, natural language processing, time series, classical machine learning (Supervised and unsupervised, regression and classification), statistics and statistical modeling, dimensionality reduction.

**Engineering:** Git and git-flow for team collaboration, Docker, Kubernetes, CD/CI pipelines (CircleCI, Jenkins, TravisCI), JIRA, Agile, API development, web development (back-end and front-end), database design, microservices, deploying and monitoring machine learning models in the cloud (AWS, GCP, Azure).

## Education

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**Ph.D.** in Epidemiology, University of Rochester, Sept 2012

**M.P.H.** in Epidemiology, University of Michigan, May 2008

**B.A.** in Biological Sciences, Rice University, Dec 2005