

Roni Kobrosly Ph.D.

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Summary

Data org leader with proven success unifying analytics, machine learning, and data engineering to drive measurable business impact. Rare combination of excellent communication skills and strategic thinking, paired with credibility through deep technical skills (particularly in the natural language processing / NLP space). 7+ years of people management and mentoring in cross-functional teams. Record of success in quickly growing data teams, with extensive experience sourcing, interviewing, and hiring effective data practitioners.

Relevant Work Experience

DrFirst

Washington, D.C.

HEAD OF DATA SCIENCE (DIRECTOR)

October 2020 - Present

- Built data evaluation pipeline around company's prescription messaging data product, which brought in \$25 million from clients since 2020.
- Data Science team prototyped and developed the 2022 Edison Award-winning SmartSuite for Pharmacy, a ML-powered API service for parsing pharmacy medication instructions, which receives millions of API requests a day.
- Planned, built, and maintaining several NLP data products that have generated > \$1M in revenue since 2020. Employed BERT and LSTMs for text classification, OCR, and named entity recognition.
- Tripled team size and now leading a multifunctional team of data scientists, data analysts, and python engineers.
- Architected company's first cloud-based, ML, CI/CD platform, resulting in dramatically faster ML deployments.
- Evangelizing data science and data-driven decision making across multiple product teams.

Start-up: Orthopedic Diagnostic Tool

Washington, DC

FRACTIONAL CTO AND Co-FOUNDER

January 2020 - Present

- Developed product with two prominent Washington DC-area orthopedic surgeons.
- Led on all technical aspects of project. Designed project architecture, created prototype, and data platform.
- Interviewed, on-boarded, and managed offshore engineers to build out the product prototype.

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 an optimization algorithm and deployed to Amazon AWS.
- Planned and implemented Dia's first ML-powered multi-channel attribution framework.

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.
- Conducted behavioral and technical interviews of nearly 100 data scientists.

Technical Skills

Open-Source Contributor: Creator and maintainer of [causal-curve \(clickable link\)](#), a widely-used python package.

Languages: Python, R, SQL (Snowflake, Redshift/Postgres, Hive, Oracle), HTML, Go, Scala.

Data: Classical statistics, classical machine learning, deep learning (PyTorch and Tensorflow for transformers, LSTMs, and CNNs), A/B testing, causal inference, Bayesian inference, time series forecasting, natural language processing (NLP), computer vision.

Engineering: AWS and GCP, data platform design, DBT, Agile, git and git-flow, Docker, Kubernetes, CI/CD pipelines (CircleCI, Jenkins, TravisCI), NoSQL (DynamoDB, MongoDB), Spark, API development (flask, Django, Tensorflow Serving), MLOps.

Education

Ph.D. in Epidemiology, University of Rochester

M.P.H. in Epidemiology, University of Michigan

B.A. in Biological Sciences, Rice University