Ladan Doroud

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EDUCATION

PhD in Computer Science

University of California, Davis   2017

SKILLS

Programming: Python, SQL, Bash, R, Perl, C++ (basic proficiency)

Data Analysis: scikit-learn, pandas, NumPy, TensorFlow, PyTorch, Matplotlib, Plotly

Big Data: Hadoop, Spark, AWS EMR

Tools: Jupyter Notebooks, Flyte, SageMaker, Docker, Kubernetes, Airflow

Analytics: ETL, Django, dbt, Google BigQuery, Metabase, (basic familiarity) Tableau and Looker

Domain Knowledge: Genomics, Bioinformatics, EHR, ICD10, Molecular Biology, Insurance Claims

Leadership & Management: Talent Development, Product Strategy, Data-Driven Decision Making

Awards

Patents: Community assignments in identity by descent networks and genetic variant origination (EP3776556A1)

Google Code Jam: Won Google Code Jam to I/O (W) 2016

WORK EXPERIENCE

(Bioinformatics) Data Scientist Betteromics.com   2023 - Present

- Development and deployment of **numerous product demos**, showcasing the platform's versatility across genomics and clinical data use cases.

- Defined and implemented customer engagement strategies, leading to the execution of complex analyses that connected clinical and molecular data, resulting in a ~20% **increase in customer adoption**.

- Established technical workflows for **foundational DNA models**, improving interpretability and enhancing biological insights for DNA manufacturability.

Principal Data Scientist Color.com   2020 - 2023

- Led the end-to-end development lifecycle of polygenic risk scores (PRS), starting from **R&D**, **statistical analysis** and modeling, **clinical validations**, **productionizing**, scalable **ETL** pipelines for millions of samples, reports and dashboards for **analytics** and **customer support**.

- Contributed to the scientific community through **publications**, developing interactive webapps and external collaborations with multiple academic institutes. This included customer-facing products such as **NIH's All Of Us**, COVID testing.

- Established a cross functional team (10+). Actively participated in talent development and recruitment for R&D, analytics engineering and data analytics roles

Staff Data Scientist Ancestry.com   2017 - 2020

- Developed **novel algorithms and big data pipelines**, demonstrating innovation and technical expertise in analyzing more than **17 million** customer's genomics data**.**

- Utilized **machine learning** algorithms and statistical methodologies to develop **predictive models** for phenotype inference based on genotype.

- Effectively coordinated cross-functional teams (3+ teams), Managed project timelines, resources, and budgets, ensuring **successful product launches** and seamless collaboration across various stakeholders.

- Led efforts resulting in **patents**, scientific publications and presentations at conferences

CoFounder AnimalBiome.com   2016 - 2017

- Defined **strategic business plans**, securing $250K in seed funding from IndieBio

- Managed early-stage operations, including product development and market evaluation