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SVETLANA VINOGRADOVA, PhD

DATA SCIENTIST / DATA SCIENCE MANAGER

SUMMARY

- Data Science Leader with over 10 years of hands-on experience in machine learning, recommendation systems, applied statistics, data visualization, and data-driven decision making

- Skilled in steering the full spectrum of the data science lifecycle from ideation to production, establishing a strategic vision for analytics teams, and seamlessly collaborating with cross-functional units including Engineering and Product

- Accomplished in influencing product strategies and investment decisions through data-driven insights and adept in translating complex data stories into actionable recommendations for a wide range of stakeholders

WORK EXPERIENCE

Zwift (Long Beach, CA / remote)

LEAD DATA SCIENTIST
September 2022 - present

- Led the development and deployment of a customer-facing, near real-time ML model within an 8-week timeline, significantly enhancing the racing experience and engagement, contributing to reduced customer churn

- Fostered collaboration with the product team and stakeholders to ensure model specifications were aligned with business objectives and user needs

- Initiated and established a systematic data quality review process with data engineers, emphasizing data validation, anomaly detection, and consistency checks to maintain data integrity across sources

InsideTracker (Cambridge, MA)

LEAD DATA SCIENTIST / DATA SCIENCE MANAGER
August 2019 - September 2022

- As the first Data Science hire, played a pivotal role in defining the data science function within the company. Established the core Data Engineering infrastructure and developed a Data Analytics framework to support stakeholders in Marketing, Product, and Executive teams.

- Led end-to-end data science projects, involving the creation of machine learning models and advanced statistical analyses with a diverse range of data, including structured and unstructured datasets from blood biomarkers, genomic data, and wearable sensors. Developed and deployed algorithms that are integral to the company's production systems, contributing to one of the most successful features in the product lineup.

- Managed a team of three direct reports and acted as the hiring manager for the Data Science team, overseeing the recruitment process and interviewing candidates to form a highly competent team.

Harvard Medical School /Dana Farber Cancer Institute (Boston, MA)

RESEARCH FELLOW
July 2016 - August 2019

- Led bioinformatics analysis of sequencing data with a focus on developing machine-learning based algorithms and statistical methods to study allelic imbalance in gene expression and associated epigenetic signatures

- Co-authored an R package for differential allele-specific analysis and co-authored 5 peer-reviewed articles

Lomonosov Moscow State University (Moscow, Russia)

PhD CANDIDATE
July 2010 - July 2016

- Developed a computational approach and implemented a GWT web-service to incorporate RNA probing data into mRNA secondary structure predictions and genome-wide search for structured RNAs

- Authored 4 papers in peer-reviewed scientific journals and presented results at 6 international conferences; co-developed and taught 4 courses, with a leading role in developing a course on "R language and its application in bioinformatics" taught to over 200 students over 3 years

Institute for Systems Biology SPB (Moscow, Russia)

BIOINFORMATICIAN
July 2010 - January 2013

- Applied system-pharmacology modeling to different stages of drug research and development, and analyzed clinical PK/PD trials results

EDUCATION

Lomonosov Moscow State University
Department of Bioengineering and Bioinformatics

PhD IN BIOINFORMATICS
2010 - 2016

Lomonosov Moscow State University
Department of Bioengineering and Bioinformatics

MS IN BIOINFORMATICS
2005 - 2010

SKILLS

Python (Pandas, scikit-learn, TensorFlow, PySpark)
R (ggplot2/tidyverse, R Markdown/Quarto, Shiny)
Java, SQL, Databricks, dbt
Git, REST APIs, Jira, Agile methodology
Deep Learning, Generative AI

INTERESTS

Long distance running (Boston Marathon qualifier)
Human Physiology/Digital Health/Wearables
Teaching and Mentoring