SVETLANA VINOGRADOVA, PhD

LEAD DATA SCIENTIST

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Boston, MA

SUMMARY

- Data Science Leader with over 8 years of hands-on experience in Machine Learning, Predictive Analytics, Applied Statistics, 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 (remote)
LEAD DATA SCIENTIST
September 2022 - present

- Spearheading the development of multiple data science initiatives, most notably a collaborative filtering recommendation model designed to offer personalized training and route suggestions for users, drawing from their historical time-series data.

- Collaborating with product teams and key stakeholders to ensure alignment 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
August 2019 - September 2022

- Lead the Data Science team to integrate a unique dataset of blood biomarkers and genomic data with physiological data from wearable sensors (including sleep, RHR, HRV), performed end-to-end analyses, and built new product features

- Built core Data Engineering infrastructure supporting the data science function, and set up internal consulting service supporting the Marketing, Product, and Executive teams

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
MS IN BIOINFORMATICS
2005 - 2010

Lomonosov Moscow State University
Department of Bioengineering and Bioinformatics
PhD IN BIOINFORMATICS
2010 - 2016

SKILLS

R (ggplot2/tidyverse, R Markdown, Shiny)
Python (Pandas, NumPy, TensorFlow)
Java, SQL, NoSQL, Microsoft Azure, AWS
Git, REST APIs, Jira, Agile methodology

INTERESTS

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