ARINA IGUMENSHCHEVA
DATA SCIENTIST

SELECTED EXPERIENCE

Freelance | Data science strategy consulting for startups | Remote

Data Science Strategy Consultant — Feb 2023 - present

Provided data science strategy support to early-stage startups, from project scoping, data collection and data science team building to machine learning approaches and data ethics guidelines. Advised on data collection, storage, quality assessment and provenance strategies. Explored and assessed the potential and pitfalls of existing in-house data and alternative data collection channels. Built exploratory and proof-of-concept data models to help early-stage startups explore their data-driven capabilities.

PeakMetrics | Media & misinformation intelligence startup | Remote

Senior Data Scientist — Jul 2022 - Dec 2022

Researched & developed an algorithm for detection of high-value narratives within large volumes of social & published media data. Conducted and established data quality assessments. Conducted data-driven research into misinformation and provided product data science support.

Nayya | Employee healthcare benefits experience startup | Remote

Senior Data Scientist — Feb 2022 - Jul 2022

Collaborated on the design and foundation of data science team infrastructure and MLOps. Conducted exploratory analyses of user spend behavior using time series and outlier detection techniques. Built data visualizations for prototyping product visualizations and communicating analysis findings to tech and non-tech stakeholders.

Thorn | Non-profit startup building tools to fight child sexual abuse | Remote

Senior Research Scientist — Feb 2021 – Oct 2021
Data Analyst — Jul 2019 – Feb 2021

Conducted exploratory data research studies to shed light on online child sexual exploitation and inform strategic decision-making across teams. Applied data science techniques like NLP, unsupervised learning, regression and network analysis to gain insights from large, diverse and unstructured data sources. Served as a technical subject matter expert and led reporting, forums, presentations and deep-dive sessions.
Established the technical infrastructure, processes and best practices for ethically sound data-driven research science. Helped grow and develop the team by assisting in hiring, refining team objectives and key results, advising on team practices and advocating for team culture. Advocated for and strove to practice diversity and inclusion in data-driven research science.

Annalect | Marketing & adtech | NYC

Data Scientist — May 2018 – Dec 2018

Defined and scored audiences for client projects from diverse big data sources using AWS Redshift SQL. Improved ETL practices and data quality analytics. Researched graph analytics applications for consumer behavior clickstream data. Built data visualization applications using JavaScript and D3.js.

Preventive Medicine, Brigham & Women's Hospital | Research lab | Boston, MA

Information Systems Programmer — Aug 2013 – Feb 2016

Managed large health survey databases using SAS, SQL and bash. Extracted, cleaned, and processed survey data in SAS. Prepared analysis datasets. Developed and updated internal web interfaces for study data collection in PHP, JavaScript, HTML and CSS.

SKILLS

Machine Learning
Python & data science packages
Classification algorithms
Clustering algorithms
Natural language processing
Graph/network analysis
Recommender algorithms

Statistical Analysis
Regression, time series
Anomaly detection
Hypothesis testing, inference
Experimentation, A/B testing
EDA, DQA

Data Collection & Management
SQL, ElasticSearch, MongoDB, Neo4j
Web scraping

Data Science Replicability
Git, GitHub, DVC
Cloud computing, AWS, GCP
Docker

Data Visualization
Plotly, Matplotlib
D3.js, Javascript, HTML, CSS

Data Science Leadership
Best practices of ethical data science
OKR goal-setting framework
Commitment to inclusive, diverse & innovative team culture

Data Science Strategy
Project scoping & planning
Data sources assessment
Team structure & best practices
Data ethics guidelines development
R&D/POC/MVP algorithm development

EDUCATION

Metis Data Science Bootcamp
Full-time training program certification

University of Rochester
Mathematics, Bachelor of Science
Economics, Bachelor of Arts

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