

ARINA IGUMENSHCHEVA

DATA SCIENTIST

SELECTED EXPERIENCE

Senior Research Scientist

Thorn | Remote | Feb 2021 – Oct 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 through 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.

Data Analyst

Thorn | Remote | 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. Prepared technical reports, data visualizations and presentations to communicate research findings to technical and non-technical audiences. Served as a technical subject matter expert and led presentations and deep-dive sessions.

Data Visualization Consultant

Freelance | Brooklyn, NY | Jan 2019 – Sep 2021

Designed and built interactive data visualizations using Plotly, D3.js, JavaScript and other data visualization libraries.

Data Scientist

Annalect | New York, NY | 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 using python. Researched novel graph analytics applications for consumer behavior clickstream data. Built data visualization applications using JavaScript and D3.js.

Information Systems Programmer

Dept of Preventive Medicine, Brigham & Women's Hospital
Boston, MA | 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 & relevant packages
Classification algorithms
Clustering algorithms
Natural language processing
Network analysis
Recommender algorithms

Statistical Analysis

Regression, time series
Hypothesis testing, inference
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

EDUCATION

Metis Data Science Bootcamp

Data Science, full-time 12-week training program certification

University of Rochester

Mathematics, Bachelor of Science
Economics, Bachelor of Arts