

Job Title: Sr. Data Scientist

Location: St. Petersburg, Florida. Candidates must reside in the Tampa Bay area before starting work.

About Luminosity:

Luminosity, Inc., a nationally recognized, small, women-owned business, has been at the forefront of advancing pretrial justice in America for over two decades. With a focus on leveraging data analytics and implementation science, we aim to enhance public safety, fairness, and cost-effectiveness across communities nationwide. Our Data Analytics team, composed of highly skilled data integration specialists, engineers, analysts, scientists, and visualization experts, is regarded as the leading authority in linking and integrating data from independent justice system agencies. Our *Transforming Siloed Data into Justice System Insights* initiative is underway in cities and states across the US.

Luminosity's pretrial justice data analytics, research, and implementation projects have been presented at prestigious national events, cited in numerous high-profile media outlets, and published in top-tiered academic journals.

Luminosity team members are committed to creating a highly collaborative and effective work environment that is open and welcoming to individuals of all backgrounds and life experiences. We prioritize developing a workforce that is as diverse as the communities in which we work.

Job Summary:

Luminosity, Inc. is seeking a Sr. Data Scientist with outstanding analytical thinking, problem-solving, and communication skills, qualified to handle all aspects of a project – ranging from raw data cleansing/linking and basic descriptive analysis to developing predictive models and evaluating the effects of public policies. As a vital member of our data analytics team, you will support the creation of integrated datasets, lead the analysis of large, complex justice system datasets, create insightful visualizations, and contribute to our Transforming Siloed Data into Justice System Insights initiative.

The role demands not only technical excellence but also a strong commitment to our mission, exceptional problem-solving abilities, and the capacity to lead and collaborate within a diverse team. In return, this position offers the unique opportunity to directly influence public safety and justice policies, working alongside leading experts and policymakers in an environment that values innovation, diversity, and real-world impact.

Responsibilities:

Data Preparation and Collaboration

- Contribute to the design and implementation of an efficient and reproducible data processing pipeline
- Work closely with data integration specialists, engineers, scientists, analysts, and domain experts to standardize, transform, link, clean, merge, and match large and complex datasets across siloed justice software systems
- Actively participate in team discussions and contribute to decision-making to ensure data strategies are well-integrated and aligned with overall project objectives
- Work in a highly diverse and collaborative environment

Data Analysis and Interpretation

- Analyze large, complex justice system datasets in collaboration with team members
- Identify trends, patterns, and anomalies, contributing to a comprehensive understanding of justice-related data
- Collaborate with team members and stakeholders to derive comprehensive insights

- Build and rigorously evaluate statistical models using best practices of traditional statistical analysis as well as machine learning and statistical inference techniques
- Prepare project memos, summaries, presentations, reports, and other work products for dissemination to policymakers, academic researchers, and other stakeholders

Visualization Creation and Storytelling

- Utilize advanced visualization tools and programming languages to create effective and insightful visual representations of data
- Develop interactive dashboards to facilitate the exploration and understanding of justice-related data
- Craft compelling narratives and communicate insights effectively to both technical and non-technical stakeholders

Education and Experience:

- A master's degree in Data Science, Computer Science, Statistics, or a related field
- Minimum of three years of professional data science experience required

Technical Skills:

Candidates for the Sr. Data Scientist position must possess knowledge and skills in the following areas:

- Programming Languages – Expert in Python and R for advanced data analysis; deep familiarity with libraries such as Matplotlib, Seaborn, Plotly, and D3.js for visualization
- Database Management – Intermediate knowledge and practical skills in SQL for managing and querying databases
- Data Manipulation – Masterful at cleaning, transforming, merging, and matching large and complex datasets across different platforms and systems
- Statistical Analysis and Modeling – Exceptional understanding of statistical modeling, machine learning, data mining, and the use of statistical analysis tools
- Data Visualization Tools – Extensive experience and expertise with business intelligence tools like Tableau and Power BI for creating dynamic dashboards and visual representations of data

Non-Technical Skills:

- Comprehensive analytical thinking and problem-solving skills, skilled at tackling complex data-related issues and contributing to project strategies and solutions
- Excellent communication and collaboration skills, with the ability to work effectively in a diverse team environment
- Strong leadership and organizational skills, with the ability to manage multiple priorities simultaneously
- Provide guidance, mentorship, and support to team members
- A commitment to Luminosity's mission of advancing pretrial justice

To Apply: Join us in transforming siloed data into justice system insights. Submit your resume, unofficial transcripts, and three references to Contact@luminosity-solutions.com. Let's make a difference together.

Luminosity is an Equal Opportunity Employer and does not discriminate based on race, color, religion, sex, sexual orientation, gender identity, national or ethnic origin, age, status as an individual with a disability, protected veteran status, genetic information, or other protected classes under the law.