City of Baltimore

Data Scientist, Mayor's Office of Innovation

Do you have a passion for data? Does the idea of collecting and analyzing complex data sets motivate you? If you thrive in a fast-paced environment where data is used to influence meaningful change, the City of Baltimore has the ideal opportunity for you!

The City of Baltimore is seeking an experienced data scientist who is a flexible, creative and knowledgeable analytics leader to help drive innovation and change across the organization. This exciting and rewarding opportunity will use data science principles to enhance, increase and improve the effectiveness and efficiency of City government.

The incumbent will conduct deep-dive quantitative and qualitative analyses to identify the root cause(s) of complex social and economic challenges. With firm data mining and project modeling skills, the individual selected for this role will use state of the art methods to access and analyze a plethora of data that will be used to build a foundation that examines, enables , and employs systematic predictive analytics.

The role requires progressively complex diverse experience in:

- Producing high-quality analytic deliverables and clearly and concisely communicating results to diverse audiences and stakeholders.
- Complex data collection, evaluation, and analysis.
- Fostering a culture of continuous improvement through data research, prediction, recommendations and feedback.
- Developing metrics to track and measure performance.
- Performing root cause research and analysis to identify process breakdowns within units, departments and Agencies.
- Developing/generating research based, original creative and innovative solutions.
- Ability to learn new concepts/frameworks, algorithms and technology rapidly as changes arise.
- Developing metrics to track the progress of work; measuring the impact of newly developed techniques and solutions; and translating analysis to develop materials to successfully communicate research findings.

Responsibilities:

- Develop relationships with various stakeholders to create value for the organization and enhance understanding of business issues.
- Identify and prioritize enterprise data analytic opportunities.
- Champion and lead data mining and analytics projects with high potential return.
- Invent and quickly iterate novel solutions to challenging data-related problems.
- Develop scalable and efficient methods for large scale data analyses and model development and deployment.
- Collaborate with developers, program managers, and product managers in an open, creative and forward thinking manner.

- Develop and incorporate a continuous quality improvement model that enhances analytic applications and practices.
- Conduct advanced statistical analysis to provide actionable insights, identify trends, and measure performance.
- Provide thought leadership by researching best practices, conducting experiments, and collaborating with industry leaders.
- Design applications targeted at analyzing large volumes of performance and operational data that enables the City of Baltimore to make key operational and functional decisions.
- Create algorithms that analyze high-volume, unstructured data sources; build models for understanding application performance and availability.
- Create visualizations of structured and unstructured performance and operations data that provides internal and external value.
- Ability to create and communicate examples, prototypes, and demonstrations of findings for stakeholders and executive leadership.

Minimum Qualifications

Bachelor's Degree in Computer Science, Statistics, Applied Math or related field, 7+ years' practical experience with SAS, ETL, data processing, database programming and data analytics; Extensive background in data mining and statistical analysis; Able to understand various data structures and common methods in data transformation; Excellent pattern recognition and predictive modeling skills; Experience with programming languages such as Java/Python an asset; Track record of translating program objectives into innovative design solutions. Advanced Degree preferred. Advanced degree may be substituted, on a year for year basis, for all but two years of required experience.

Supplemental Information

Salary negotiable and commensurate with experience and qualifications. Qualified applicants are encouraged to apply. Resume and letter of interest including salary history and requirements should be emailed to **talent.masters@baltimorecity.gov.** Candidate finalist must successfully pass a criminal background investigation check and drug/alcohol screenings.

No phone calls, please.

EOE/M/F/D/V TTY: 711