



## Executive Division

### Research & Analytics Department – New York City

#### Data Scientist

#### Reference No. EXEC\_DAT\_NYC\_6138

#### Goal

The Research and Analytics Department in the Office of the New York State Attorney General (OAG) is seeking candidates for a full-time Data Scientist position to explore datasets, develop new databases, and use predictive modeling to detect anomalies in information pertinent to OAG investigations. The goal of the data scientist at the OAG is to ensure that our most complicated cases and policy arenas have the benefit of advanced analytical tools to understand how otherwise elusive trends can be laid bare once we dive into the underlying data.

#### Purview

As part of an innovative team housed in the Executive Division, you will work with senior staff and divisions throughout the OAG to support the OAG's major initiatives, investigations, and policy development. Our team researches and writes analytical reports garnering national attention, directs multi-million dollar grant programs, and supports the office's major investigations. See for example [Preliminary Report on NYPD Response to Protests](#), [Opioids lawsuit](#), [lawsuit protecting tenants from lead poisoning](#), [FX options fraud](#), and the [Virtual Markets Integrity Initiative](#). Utilizing a vast collection of public and confidential information, you will work with data covering the breadth of the OAG's purview building advanced analytic tools to inform investigations that affect the lives of all New Yorkers.

Employing over 1,700 people across New York State, the OAG is both the "People's Lawyer" and the State's chief legal officer. The Data Scientist will support OAG work in numerous legal and regulatory arenas, including protecting the rights of investors and consumers, coordinating state-wide criminal investigations, promoting civil rights, economic and social justice, encouraging harm-reducing public health strategies, and preserving the State's environment. The OAG also advises the Executive branch of State government and defends actions and proceedings on behalf of the State.

#### Responsibilities:

The OAG has a rich source of public and confidential data. The Data Scientist will be primarily responsible for:

- Exploring and analyzing data
- Communicating findings through written reports and visualizations

Additional responsibilities may include:

- Developing predictive modeling to detect anomalies
- Developing or programming new databases or data tools
- Performing other duties as requested

#### Qualifications/Skills:

- Advanced degree in computer science, mathematics, applied statistics, physics, engineering or similar disciplines with demonstrated research capability or bachelor's degree and equivalent experience and training;
- Experience with the following technologies:
  - Programming, scripting and statistical languages (e.g. Python, R, use of dataframes)

- Data visualization software (e.g. Tableau, d3, plotly, matplotlib, bokeh)
- Relational databases and advanced SQL queries
- Excellent oral, written, and presentation communication skills
- Ability to communicate technical concepts and results to a non-technical audience
- Highly organized, self-directed, and curious
- Personable and positive, with a high level of integrity
- Interest in public policy and social/economic justice

Candidates with additional experience in any of the following are preferred:

- 2+ years demonstrated qualitative, quantitative or investigative research abilities;
- Git/github and linux command line tools
- Graph databases (e.g. Neo4J)
- Cloud, distributed and container computing platforms (e.g. AWS, Redshift, EC2, docker)
- Machine learning frameworks (e.g. supervised and unsupervised methods such as neural networks, random forests, and generalized linear models)
- Analyzing social networks (e.g. Facebook, Twitter, Instagram)
- Natural Language Processing or Entity Resolution

OAG employees serve more than 19 million state residents through a wide variety of occupations. We offer a comprehensive New York State benefits package, including paid leave, health, dental, vision and retirement benefits, and family-friendly policies. As an employee of the OAG, you will join a team of dedicated individuals who work to serve the people of our State.

*Candidates from diverse backgrounds are encouraged to apply.  
The OAG is an equal opportunity employer and is committed to workplace diversity.*

## HOW TO APPLY

**Applications are being received online.** To apply, please click on the following link [EXEC DAT NYC 6138](#)

Applicants must be prepared to submit a complete application consisting of the following:

- [Cover Letter](#) (*You may address to Legal Recruitment*)
- [Resume](#)
- [Transcript](#) if fewer than five (5) years post-graduate;
- List of three (3) [references](#) with contact information and email addresses
- [Writing Sample](#)

***Please note: Failure to submit a complete application will delay the consideration of your application.***

If you have questions regarding a position with the OAG and the application process or you need assistance with submitting your application, please contact Legal Recruitment via email at [recruitment@ag.ny.gov](mailto:recruitment@ag.ny.gov) or phone at 212-416-8080.

For more information about the OAG, please visit our website: [ag.ny.gov](http://ag.ny.gov)