

Position Description:

Data Scientist

Classification: Exempt

Reports to: Senior Data Scientist

Summary/Objective

The Data Scientist is responsible for designing, developing, implementing and testing statistical and machine learning models that are the core components and integrated modules of Cognistx's products and services. This role requires continuous improvement and maintenance of the algorithms and code routines. This position participates in design, planning and coding activities with other staff members such as Software Engineers, Product Managers, Cloud Specialists. An additional key function of the role is client interaction and communication in order to gather requirements and present results.

Essential Functions

- Client data science requirements gathering to define analytic/predictive objectives of Cognistx projects and/or products, involving different industries and backgrounds
- Data gap analysis, followed by the development and execution of data analysis plans
- Execution of data analysis projects by: a) documenting the client's requirements (including statistical analysis & visualization of data, data sampling, cleaning, and preprocessing), b) design, creation and optimization of statistical machine learning models to provide desired analytic capability (clustering, classification, matching/retrieval, prediction, regression, anomaly detection, etc.)
- Best-practices implementation, maintenance and continuous improvement of created platforms and/or models, along with formal documentation and design/documentation reviews
- Writing, communicating and presenting results and findings to clients, and contributing to new proposal development

Other Duties

- Research activities on special projects focused on increasing the company's specialization and knowledge in a specific field related to Machine Learning and Artificial Intelligence.
- Some projects will require participation defining the Statement of Work and project proposal to clients. Specifically defining the statistical models to implement based on the business objectives.
- Please note this job description is not designed to cover or contain a comprehensive listing of activities, duties or responsibilities that are required of the employee for this job. Duties, responsibilities and activities may change at any time with or without notice.

Supervisory Responsibility

This position may coach and supervise any temporary Data Analyst interns.

Key Skills and Abilities

- Design, implement, evaluate and explain the use of analytic algorithms (statistical learning models) on large-scale, real-world datasets
- Design and execute experimental data collection and present resulting analyses using appropriate data visualizations
- Apply and customize ensembles of trained models and coded modules for application-specific data science requirements and objectives
- Identify tradeoffs among data science techniques and contrast design alternatives, within the context of specific data science projects; apply and customize ensembles of trained models and coded modules for application-specific data science requirements and objectives
- Ability to survey, interpret and comparatively criticize state of the art research papers relevant to specific application projects
- Fluent in English, with excellent verbal and advanced technical written communication skills

Required Education and Experience

- Masters degree or higher in Computer Science or related (Computer Engineering, Software Engineering, Statistics, Mathematics, Information Systems Management, etc.) with a focus on Data Science, Machine Learning, Analytics or Business Intelligence.
- 2+ years of experience working with SQL, NoSQL, AWS and Python data analysis-related libraries such as Pandas, Numpy, Scikit-Learn, Keras, PyTorch, Tensorflow, Matplotlib, Seaborn.
- Solid academic and professional training in probability, statistics and Machine Learning. Academic courses such as: Statistics, Machine Learning, Deep Learning, Data Science, Data Mining, Big Data, Business Intelligence, etc.
- Proven exposure to projects that involve all the data analytics process: data cleaning, data manipulation, statistical modeling, and final presentation of results/recommendations to clients or managers.
- Solid knowledge of Machine Learning (classification and regression) algorithms such as Decision Trees, Random Forest, Logistic Regression, AdaBoost, Neural Networks. Able to work with unbalanced data sets, with structured and unstructured data.
- Experience and knowledge modeling time series in predictive analysis.
- Experience and solid knowledge working with large datasets using cloud services (Amazon Web Services, Google Cloud or Azure).

Preferred Education & Experience

- Experience with other programming languages such as Java, R, Matlab.
- Experience with Microsoft Office and Tableau.
- Academic or professional background in Natural Language Processing, Computer Vision or similar.
- Experience in presenting and visualizing complex data analysis and results to both technical and non-technical audiences..

Work Environment

This job operates in a professional office environment. This role routinely uses standard office and business equipment such as laptop or desktop computers, keyboard, mouse, multiple monitors, phones, photocopiers, filing cabinets, and fax machines.

Physical Demands

The physical demands described here are representative of those that must be met by an employee to successfully perform the essential functions of this job.

While performing the duties of this job, the employee is regularly required to see, talk, and hear. The employee frequently is required to stand; walk; use hands to finger, handle or feel; bend, stretch, and reach with hands and arms.

Reasonable accommodations may be made to enable individuals with disabilities to perform the essential functions.

Position Type/Expected Hours of Work/Requirements

This is a full-time, exempt, salaried position. Days and hours of work are Monday through Friday, 9:00 a.m. to 5 p.m. Some projects will require extra hours depending on the deliverables due dates and progress made.

Travel is primarily local during the business day. Occasional out of office client meetings may be required.

Work Authorization/Security Clearance (if applicable)

This position requires U.S. work authorization. Security clearances may also be required by some clients.