

## **Director Data Science - Rosemont, IL**

### **Description-**

The Director Data Science (Insights & Analytics) leads the integration of mathematics/statistics, computer programming, ETL and data transformation, software development, and high-performance computing. Responsible for maintaining the integrity of analytical assets, including derived or transformed data, models/algorithms, and related technical code (e.g., machine learning tools, recommendation engines, automated scoring systems, etc.). Responsible for regulating usage of data or code for business application, including the development, testing, and productionalization/scaling of models and statistically-based tools. Leads a team of Data Scientists responsible for data mining, integration, and preparation for use in advanced analytics. Responsible for prioritization and Data Scientist resource allocation across the enterprise. Responsible for the monitoring of model integrity and performance and works closely with Decision Sciences to continuously improve/enhance advanced analytics effectiveness. Serves as the business owner for all advanced analytics tools, including their access and application. Works closely with Food Genius team to ingest, catalog, and disseminate third-party intelligence for analytics use. Is a principal participant within the Data Governance committee.

### **Essential Duties and Responsibilities**

#### **Data Science Practice Management:**

Establish an enterprise-wide practice model that grows and matures the Analytics/ML talent pool, accelerates the use and delivery of Analytics/ML in solutions and broadens organizational utilization for maximum impact

Develop and identify curriculum sources to ensure Data Science practice is on track with rapid development and evolution of industry-wide Data Science practices, including processes, methodologies, and technologies

Collaborate with internal, external and cross functional teams to lead enterprise efforts to bring in new data science technologies, frameworks and methodologies

Lead a team of Data Scientists to develop and implement data strategies and governance model to mine and manage large scale data sets to support Analytics/ML models and algorithms

Seek and refine data enrichment methods and new internal and external data sources

Work with Infrastructure teams to evaluate and implement new analytics platforms, services and methodologies

#### **Data Management:**

Serve on the Data Governance committee to help identify data integrity issues, process enhancements, and new governance routines

Develop and oversee protocols for cloud-based data management (in partnership with Data Engineering team) and data integration across platforms to facilitate business intelligence and advanced analytics programs

Drive efficiency in database designs within the cloud architecture and accountable for driving cost efficiency as data requirements continue to scale

**Data Preparation and Transformation:**

Develop and oversee data preparation and ETL processes with a specific emphasis on driving scalable, repeatable processes with existing tools (creating efficiency through collaboration)

Partnering with Food Genius and Decision Sciences, oversee process, methodology, and quality control for data transformation needs as required for model development

Work with Data Governance to establish process and protocols for the acquisition and stewardship of newly derived or acquired data elements, including third-party data

**Advanced Analytics Scalability:**

Collaborate closely with Decision Sciences on model design and testing (research and development process) to create pragmatic, scalable, and results-driven proofs of concepts for piloting

Model Management, Collaboration, and Enhancement:

Develop and oversee protocols for model productionalization using existing tools

Establish and maintain collaboration platform for the efficient use of code and algorithms across models. Create an ecosystem of common code to limit redundancy and drive consistency in quality across model designs

Establish and oversee testing protocols for model integrity to identify when changes or enhancements need to be employed dynamically to sustain business performance

**Qualifications-**

**Education / Training:**

Master's Degree or higher in Statistics, Mathematics, Data Science, Computer Science or related disciplines

Related Experience:

8+ years progressive analytics leadership experience required including supervisory positions within Retail, CPG, Foodservice, and Distribution/Transportation or like vertical with a high volume of transactional and operational data

5+ years of experience in Analytic Software Development Lifecycle

5+ years of experience as a proven leader generating Advanced Analytics solutions to address business needs

5+ years of experience leading teams

Strong programming ability

Well versed in Agile software development practices

Fluency with Python

Comfortable in quickly changing AWS ecosystem

Experience developing models, monitoring them in production, and measuring their business impact

Experience implementing solutions with one or more key technology platforms including:

Spark

Hadoop/HDFS (HBase, Cloudera, Hortonworks, MapR)

NoSQL databases (Couchbase, Cassandra, MongoDB, HIVE, etc.)

Cloud-based/hosted Analytics Platforms

Tableau or related technologies

Data preparation, processing, and model management/collaboration tools

Metadata management applications

Machine-generated data visualization platforms

Exposure/familiarity with NLP

Experience with software scalability

Knowledge / Skills / Abilities:

Business Strategy and Analytics

Excellent business acumen

Excellent data manipulation and analysis skills

Ability to think logically and analytically

Detail oriented

Able to take complex, ambiguous problems, break them down into smaller parts and problem solve to come up with a whole, integrated and strategic solution

Creative problem solver

Competency/fluency with various statistical methodologies/applications, including classification, survival analysis, regression, design of experiments, time series, optimization, and machine learning

Self-direction and Team Work

High degree of motivation

Ability to work independently and within a team

Ability to build consensus and lead work streams

Highly organized with the ability to multitask and prioritize workloads

Communication

Excellent verbal and written communication skills

Strong presentation skills

Ability to communicate complex concepts clearly

Ability to influence change within complex organizations

Ability to relate to others

Advanced knowledge of information visualization best practices and strategies

Proficiency in the following required:

MS Office Suite, including:

Microsoft Outlook

Microsoft Excel (e.g., pivot tables; slicer; vlookup, hlookup; formulas; if then statements)

Microsoft PowerPoint (e.g., update presentations; create graphs, tables and other data visualization techniques)

Microsoft Word

Agile methodology

Source control (e.g., GitHub)

Data querying methodologies and languages (e.g., SQL)

Coding using open source technology (e.g., Python, R)

Cloud-based data warehouse environments (e.g., Amazon Web Services, Snowflake/Redshift)

Other data mining and preparations tools (e.g., Alteryx, Talend)