**Class Summary**

The Data Scientist applies knowledge of statistics, machine learning, programming, data modeling, simulation, and advanced mathematics to recognize patterns, identify opportunities, pose business questions, and make discoveries leading to prototype development and product improvement; demonstrates a flexible and analytical approach to design, develop, and evaluate predictive models and advanced algorithms that lead to optimal value extraction from the data; models complex business problems, discovers business insights, and identifies opportunities through the use of statistical, algorithmic, mining, and visualization techniques.

**Distinguishing Characteristics**

This is a single-level classification. This classification is distinguished from the Enterprise Architect classification in that the incumbent in the Enterprise Architect is responsible for establishing and maintaining alignment among the enterprise data architecture, the strategic IT plan, strategic priorities, application and integration systems analysis and design, and the enterprise technology architecture.

**Examples of Duties**

1. Mine large data sets using established and/or emerging in-memory analytic technologies.
2. Collaborate with engineers, experienced designers, and software developers to deliver customer solutions.
3. Retrieve, synthesize, and present critical data in a format that is immediately useful to answering specific questions or improving system performance.
4. Improve upon existing methodologies by developing new data sources, testing model enhancements, and fine-tuning model parameters.
5. Build decision-making models and propose solutions for business problems.
6. Conduct written and verbal presentations, sharing insights and recommendations to audiences of varying levels of technical sophistication.
7. Develop and share best practices for teams working on analytical problems.
8. Design security layers to ensure compliance with data security and privacy mandates across multiple disciplines.
9. Perform other duties as assigned.

**Knowledge/Skills**

Ability to effectively engage in and sustain relationships with people from diverse cultures and socio-economic backgrounds

Ability to work independently and as a team member

Demonstrated proficiency with business applications, such as Microsoft Office suite

**Education and Experience Requirements**

Any combination of education and experience that clearly demonstrates the ability to perform the job duties of the position

**Licensing, Certification, and Other Requirements**

Some licenses, certifications, and other requirements determined to be necessary to meet the business needs of the employing unit may be required

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| **FLSA Designation** | Exempt (Computer Professional) |
| **Service Status** | Career Service |
| **EEO Code** | 2 |
| **Levels within same series** | None |
| **Class History** | 01/2024 - Created |