**Class Summary**

The responsibilities of this classification include applying advanced analytical and modeling techniques that lead to program improvements, translating business problems into mathematical problem statements, and forming data-driven hypotheses. Incumbents manage the most complex analyses and systems integration projects with significant consequences and lead the work of less experienced staff members.

**Distinguishing Characteristics**

This classification is the third level of a three-level series. This classification is distinguished from the Data and Evaluation Manager in that the Data and Evaluation Manager is responsible for supervising the work of an assigned work team and managing performance measurement, evaluation, and data asset projects across a division.

**Examples of Duties**

*In addition to the duties of the Human Services Data Scientist classification, the Human Services Data Scientist-Senior will*

1. Generate and deliver compelling insights to leaders and key partners to inform strategic decision-making.
2. Lead cross-system/cross-departmental data science projects.
3. Lead the development of scalable, efficient, automated processes for large-scale data analyses, model development, validation, and implementation.
4. Improve existing methodologies by developing new data sources, testing model enhancements, and fine-tuning model parameters.
5. Partner with evaluators and management to create products and dashboards that enable the use of data insights and model predictions to make timely business decisions.
6. Collaborate with partners to identify required data sources, valuable engineer features, operationalize data pipelines, and ensure compliance with data governance and security requirements.
7. Perform other duties as assigned.

**Knowledge/Skills**

Ability to independently break down large datasets and synthesize inputs from multiple sources

Advanced skill in using various data science methodologies to solve complex business problems

Skill in working with, clarifying, and finding creative solutions for ambiguous and sometimes challenging requests from partners

Proven ability to communicate verbally and in writing to technical peers and leadership teams with various levels of technical knowledge, providing education as well as sharing insights and data-driven recommendations

Skill in the use of data visualization tools to provide actionable insights and reusable frameworks

Skill in analytical thinking, problem-solving, resolving conflicts, and bringing others to a consensus

Skill in planning, organizing, and formal project management principles and practices

Skill in providing customer service

Skill in handling multiple competing priorities and producing quality detailed work within tight timeframes

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 (Administrative) |
| **Service Status** | Career Service |
| **EEO Code** | 2 |
| **Levels within the same series** | Human Services Data Scientist-Associate, Human Services Data Scientist, Human Services Data Scientist -Senior |
| **Class History** | 08/2023 - Created |