Data Scientist Level 2 (Telework)

Annapolis Junction, Maryland

TKO Team / Data Scientist (Full-Time) / Hybrid

We are seeking a Data Scientist with analytic development skills to support a highly visible cyber sensor and analytic modernization program. The candidate will work with a team to analyze and characterize large data sets, create data visualizations, and identify anomalous/interesting behavior.

The successful candidate will have experience with analysis in the cyber domain and discovery operations, and have experience with algorithm design and development in cloud environments.

A data scientist will develop machine learning, data mining, statistical and graph-based algorithms to analyze and make sense of datasets; prototype or consider several algorithms and decide upon final model based on suitable performance metrics; build models or develop experiments to generate data when training or example datasets are unavailable; generate reports and visualizations that summarize datasets and provide data-driven insights to customers; partner with subject matter experts to translate manual data analysis into automated analytics; implement prototype algorithms within production frameworks for integration into analyst workflows.

** This position will have up to 60% telework.

Capabilities

- Produce data visualizations that provide insight into dataset structure and meaning

- Work with subject matters experts (SMEs) to identify important information in raw data and develop scripts that extract this information from a variety of data formats (e.g., SQL tables, structured metadata,

network logs)

- Incorporate SME input into feature vectors suitable for analytic development and testing

- Translate customer qualitative analysis process and goals into quantitative formulations that are coded into software prototypes

- Develop and implement statistical, machine learning, and heuristic techniques to create descriptive, predictive, and prescriptive analytics

- Develop statistical tests to make data-driven recommendations and decisions

- Develop experiments to collect data or models to simulate data when required data are unavailable

- Develop feature vectors for input into machine learning algorithms

- Identify the most appropriate algorithm for a given dataset and tune input and model parameters

- Evaluate and validate the performance of analytics using standard techniques and metrics (e.g. cross validation, ROC curves, confusion matrices)

- Oversee the development of individual analytic efforts and guide team in analytic development process

- Guide analytic development toward solutions that can scale to large datasets

- Partner with software engineers and cloud developers to develop production analytics

- Develop and train machine learning systems based on statistical analysis of data characteristics to support mission automation

Required Qualifications

- TS/SCI with Agency Appropriate Polygraph

- Bachelor's and Master's degree from an accredited college or university in a quantitative discipline (e.g., statistics, mathematics, operations research, engineering or computer science).

- Five years of experience analyzing datasets and developing analytics, five years of experience programming with data analysis software such as R, Python, SAS, or MATLAB. An additional two years of experience in software development, cloud development, analyzing datasets, or developing descriptive, predictive, and prescriptive analytics can be substituted for a Master's degree.

- A PhD from an accredited college or university in a quantitative discipline can be substituted for three years of experience.

Required Technical Skills

- Python and object oriented programming

- Analytic development within Linux environment

- Experience with DataFrames (Pandas or Spark)

- Understanding of data science concepts

Desired Technical Skills

- PySpark and/or distributed computing

- Experience working in cloud environments (Azure, AWS)

Wyetech, LLC is an Equal Opportunity Employer. All qualified applicants will receive consideration for employment without regard to race, color, religion, sex, sexual orientation, gender identity, national origin, or protected veteran status and will not be discriminated against on the basis of disability.