

## **CSE355 - Data Science Professional Certification**

### **Role Exploration**

A Data Scientist plays a crucial role in extracting insights from structured and unstructured data to drive business decisions. The primary responsibility involves data collection, cleaning, and analysis using statistical and machine learning techniques. Data Scientists build predictive models, develop algorithms, and validate models using real-world data. They collaborate with cross-functional teams to translate data-driven insights into actionable strategies.

#### **Key Responsibilities:**


- Collect, clean, and preprocess large datasets from multiple sources.
- Apply statistical methods and machine learning algorithms to identify patterns and trends.
- Build predictive models for business use cases (e.g., customer churn, fraud detection).
- Visualize data using dashboards and reports for stakeholders.
- Communicate technical findings in a clear, non-technical manner.



#### **Essential Skills:**

- **Programming:** Proficiency in Python and R for data manipulation and modeling.
- **Mathematics & Statistics:** Strong foundation in probability, linear algebra, and hypothesis testing.
- **Machine Learning:** Knowledge of supervised and unsupervised learning models.
- **Data Visualization:** Experience with tools like Tableau, Power BI, and libraries such as Matplotlib or ggplot2.
- **Big Data Tools:** Familiarity with Hadoop, Spark, and cloud platforms (AWS, Azure, GCP).

**Common Tools:** Python, R, SQL, TensorFlow, Scikit-learn, Tableau, Git, Jupyter Notebook.

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### Data Scientist

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### About the job

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Explore your next opportunity at a Fortune Global 500 organization. Envision innovative possibilities, experience our rewarding culture, and work with talented teams that help you become better every day. We know what it takes to lead UPS into tomorrow—people with a unique combination of skill + passion. If you have the qualities and drive to lead yourself or teams, there are roles ready to cultivate your skills and take you to the next level.

#### Job Description

#### DATA SCIENTIST

#### Job Summary

This **Data Scientist** creates and implements advanced analytics models and solutions to yield predictive and prescriptive insights from large volumes of structured and unstructured data. This position works with a team responsible for the research and implementation of predictive requirements by leveraging industry standard machine learning and data visualization tools to draw insights that empower confident decisions and product creation. This position leverages emerging tools and technologies available in On-prem and Cloud environments. This position utilizes industry standard machine learning and data visualization tools to transform data and

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<p>analytics requirements into predictive solutions and provide data literacy on a range of machine learning systems at UPS. This position identifies opportunities for driving descriptive to predictive and prescriptive solutions, which become inputs to department and project teams on their decisions supporting projects.</p>	
<b>Responsibilities</b> <ul style="list-style-type: none"> <li>• Defines key data sources from UPS and external sources to deliver models.</li> <li>• Develops and implements pipelines that facilitates data cleansing, data transformations, data enrichments from multiple sources (internal and external) that serve as inputs for data and analytics systems.</li> <li>• For larger teams, works with data engineering teams to validate and test data and model pipelines identified during proof of concepts.</li> <li>• Develops data design based on the exploratory analysis of large amounts of data to discover trends and patterns that meet stated business needs.</li> <li>• Defines model key performance indicator (KPI) expectations and validation, testing, and re-training of existing models to meet business objectives.</li> <li>• Reviews and creates repeatable solutions through written project documentation, process flowcharts, logs, and commented clean code to produce datasets that can be used in analytics and/or predictive modeling.</li> <li>• Synthesizes insights and documents findings through clear and concise presentations and reports to stakeholders.</li> <li>• Presents operationalized analytic findings and provides recommendations.</li> <li>• Incorporates best practices on the use of statistical modeling, machine learning</li> </ul>	
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<p>the use of enterprise data science platforms.</p> <ul style="list-style-type: none"> <li>• Core AI / Machine Learning knowledge and application in supervised and unsupervised learning domains.</li> <li>• Familiarity with Java or C++ is a plus.</li> <li>• Solid oral and written communication skills, especially around analytical concepts and methods.</li> <li>• Ability to communicate data through a story framework to convey data-driven results to technical and non-technical audiences.</li> <li>• Master's Degree in a quantitative field of mathematics, computer science, physics, economics, engineering, statistics (operations research, quantitative social science, etc.), international equivalent, or equivalent job experience.</li> </ul>	
<b>Last Day Posted - 2/25/2024</b>	
<b>Employee Type</b>	
Permanent	
UPS is committed to providing a workplace free of discrimination, harassment, and retaliation.	

### 5 Key Requirements:

- **Expertise in R, SQL, Python and/or any other high-level languages.**
- **Experience in development of AI and ML using platforms like VertexAI, Databricks, or SageMaker, and familiarity with frameworks like PyTorch, TensorFlow, and Keras.**

- **Strong analytical skills and attention to detail**, with experience applying models from small to medium scaled problems.
- **Deep understanding of data management pipelines** and experience in launching advanced analytics projects in production.
- **Ability to communicate data through a story framework** to convey results to both technical and non-technical audiences.