

DATA SCIENCE PROFESSIONAL CERTIFICATION

Role Exploration Report – Data Scientist

Introduction

The **Data Scientist** is one of the most in-demand roles in today's digital economy. As organizations are flooded with massive amounts of data from social media, healthcare devices, e-commerce transactions, financial markets, and IoT sensors, they require experts who can interpret this information and provide valuable business insights. Data Scientists combine skills from mathematics, statistics, programming, and domain knowledge to uncover patterns, make predictions, and support evidence-based decision-making. Just as electricity powered the industrial revolution, data science is now powering the artificial intelligence revolution.

Key Responsibilities

1. **Data Acquisition and Cleaning** – Gathering data from databases, APIs, or unstructured sources and handling missing values, duplicates, and outliers.
2. **Exploratory Data Analysis (EDA)** – Performing descriptive and diagnostic analysis to understand relationships and trends within the data.
3. **Feature Engineering** – Selecting, creating, and transforming variables to improve model accuracy.
4. **Model Development & Evaluation** – Applying machine learning algorithms such as regression, classification, clustering, and deep learning to solve business problems.

5. **Visualization and Storytelling** – Using dashboards and charts to communicate findings effectively to both technical and non-technical teams.
6. **Deployment & Monitoring** – Collaborating with engineers to put models into production and track performance over time.

Required Skills

- **Statistical & Mathematical Knowledge:** Probability, hypothesis testing, linear algebra.
- **Programming:** Python, R, and SQL for data manipulation and machine learning.
- **Machine Learning & AI:** Knowledge of scikit-learn, TensorFlow, PyTorch.
- **Big Data Tools:** Spark, Hadoop for handling large-scale datasets.
- **Visualization Tools:** Tableau, Power BI, Matplotlib, ggplot2.
- **Soft Skills:** Communication, business acumen, problem-solving mindset.

Common Tools & Platforms

- **Python, R, SQL** for analysis and modeling.
- **Jupyter Notebook & RStudio** for experiments.
- **Tableau / Power BI** for dashboards.
- **GitHub / GitLab** for version control.
- **Cloud Platforms** (AWS, Azure, GCP) for scalable data solutions.



Kroll

Analyst II, Global Financial Data Operations

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About the job

We are looking for an Analyst II for our Client Services Operations team which performs, Data extraction, Data analysis on financial models and financial valuation reports along with report updates and various support services. The team undertakes research and collects financial and business data based on the request from the internal Kroll business units. The relevant financial and business data is collected through various publicly available sources and Kroll proprietary files. Pursuant to the collection, the data is summarized in the format prescribed by the Kroll business units. The team also undertakes subsequent analysis with respect to the completeness of the data and verification of accuracy of the information. This enables the business units to have easy access of information / data as available at various sources.

Analyst will perform research and analyze financial information to help company make well informed commercial decisions, conduct research, and monitor financial movements.

The Day-to-day Responsibilities Include But Are Not Limited To

- Prepare and analyze trial balances and various accounting schedules, ensuring the accuracy and completeness of financial data. Transfer trial balance data to the Income Statement (IS) and Balance Sheet (BS), and support the preparation of monthly, quarterly, and annual financial reports/analysis.
- Update/Input the data into various financials models/templates as per the guidelines set by BUs/Clients
- Broad analysis of income statement, balance sheet, cash flows, ratios, segment performance, etc. and use appropriate knowledge to proactively highlight the exceptions and or variations.
- Ensure min of >99% quality on the work processed and ensure quality checked documents (v2's) are completed in 24-48hrs or as per TAT
- Meet timeliness expectations as stated by the business.
- Raise queries on a timely basis with the TLs for quick resolution.
- Contribute process-related ideas that reduce time or provide cost benefits.
- Participate in pilot runs for projects to determine the cycle time of each record to report it to the leads.
- Be part of the training session/walk-through calls with larger team and ask relevant questions to lead.