Data Analyst

Job Summary

The Data Analyst analyzes business requirements to determine and document associated data sourcing, data modelling, and data transformation requirements.

Job level: Individual Contributor

Competencies

Data Literacy (Level 4)

Using data to gain insights, solve problems, and inform decisions.

Leverages complex data for impact.

- Interprets complex data, including advanced statistics, to identify trends and draw conclusions.
- Translates data-based evidence into actionable knowledge to inform decision making.
- Implements strategies to incorporate data analytics into decision making at different levels of the organization.
- Determines what research and data analytics are needed to address an issue.
- Evaluates data collection and analysis processes to identify potential biases.

Analytical Thinking (Level 3)

Analyzing and synthesizing information to understand issues, identify options, and support sound decision making.

Analyzes complex situations

- Analyzes complex situations, breaking each into its constituent parts.
- Evaluates alternative causes or ways of interpreting complex information.
- Identifies connections between situations that are not obviously related.
- Identifies gaps in information and makes assumptions in order to continue the analysis and/or take action.

Collaborating with Others (Level 3)

Working together with others in a cooperative and supportive manner to achieve shared goals.

Fosters collaboration

- Gives credit and acknowledgement for contributions and efforts of others.
- Provides constructive feedback to others.
- Helps build consensus among members of groups.
- Provides opportunities for all group members to contribute to group discussions.

Quality Focus (Level 3)

Follows up on procedures, ensures high quality output, takes action to solve quality problems or notify others of quality issues.

Reviews and coaches others on quality standards

- Explains the organizational policies and procedures for quality assurance.
- Works at a level that exceeds quality standards set by the organization.
- Reviews the work of others to ensure that organizational quality standards are met.
- Advises management when quality issues and challenges are apparent.

Database Administration (Level 3)

Applying methods, practices and policies to the design and management of databases.

Applies the competency in the full range of typical situations, requiring guidance in only the most complex or new situations.

- Makes recommendations on the transformation of data models into database schema / logical model.
- Translates complex requirements into releases of fully developed and tested database access modules.
- Automates diagnostic and monitoring tools to prevent problems, and enhance performance and availability.
- Develops strategies for backup and recovery, data population and migration.
- Performs simple changes to the databases based on maintenance and update releases.
- · Conducts general impact analysis on database change management.
- Resolves data integrity issues and implements data integrity safeguards.

Infrastructure (Level 3)

Supporting the enterprise computing infrastructure (e.g., enterprise servers, client server, storage devices and systems, hardware and software) in the provision, management, storage, operation, scheduling, support and maintenance of the infrastructure.

Applies the competency in the full range of typical situations, requiring guidance in only the most complex or new situations.

- Describes how a specific infrastructure component integrates with other enterprise elements.
- Uses performance data collection tools and techniques to mitigate down-time and improve performance.
- Manages a specific infrastructure component, including hardware/software/firmware installation, patching, and updating.
- Solves routine problems, documenting new problems and their solution for future reference.
- Uses appropriate diagnostic tools to solve complex problems.
- Executes standards without supervision, suggesting modifications to these standards.

Information Management (Level 3)

Following procedures for the collection, organization, retrieval, maintenance and dissemination of information.

Applies the competency in the full range of typical situations, requiring guidance in only the most complex or new situations.

- Applies methods and practices to manage the full life cycle of information from creation or acquisition to disposal.
- Applies appropriate security procedures and legislative policies when managing information.
- Deploys content throughout the organization using a suite of information access tools.

Requirements Analysis (Level 3)

Eliciting, documenting and managing requirements, to meet business and project objectives and facilitate the successful implementation of the product or service.

Applies the competency in the full range of typical situations, requiring guidance in only the most complex or new situations.

- Develops complex models with multiple dependencies or that require the input of multiple groups.
- Creates or revises processes according to improvement plans and objectives.
- Develops learning solutions to educate employees on new or revised processes.
- Manages interdependencies between processes to ensure effective operations.
- Evaluates processes after improvements and, on an ongoing basis, to determine need for further revisions.
- Provides recommendations including cost-benefit analysis for most viable option when multiple alternatives are presented.

Responsibilities

Data Science

- Access data warehouse to extract data relevant to analysis
- · Collect data from different systems to centralize operational data
- Perform data cleansing, data filling, and benchmarking against independent data sources
- Participate in data migration by mapping a path from the old data system to the new system through the process of data extraction and data loading
- · Conduct basic data reconciliations to ensure accuracy and data integrity
- · Build logical and physical data models to meet data requirements
- Analyze business requirement to determine and document associated data sourcing, data model and data transformation requirements
- Validate data flow through implemented data models from source to target
- Document data quality issues and prioritize the correction in source systems or in the data warehouse
- Provide input to enterprise architects specializing in information and data on data management decisions, including development and maintenance of the enterprise data model

Knowledge Areas

- Apache Hive (Intermediate)
- Microsoft Access (Intermediate)
- Microsoft Office Suite (Intermediate)
- My Structured Query Language (MySQL) (Intermediate)
- Oracle Products (Intermediate)
- Python (Intermediate)
- R (programming language) (Intermediate)
- Statistical Analysis System (SAS) (Intermediate)
- Statistical Package for the Social Sciences (SPSS) (Intermediate)
- Structured Query Language (SQL) (Intermediate)
- Microsoft SQL Server Integration Services (SSIS) (Intermediate)
- Tableau (Intermediate)
- Visual Basic for Applications (VBA) (Intermediate)