NOVARTIS

Analytics Engineer

Job ID
REQ-10054404
Jun 05, 2025
Japan

Summary

This person, as an Analytics Engineer, will be responsible for managing core data infrastructure, ensuring data is available and accessible within a Data & Analytics team or any data-related project. The role also acts as a bridge between Business Analysts and Data Scientists, building well-tested, up-to-date, and documented datasets that the franchise can use to answer their own questions. Additionally, the role supports the implementation and operationalization of machine learning models and the development of interactive dashboards and reports using Power BI to enable data-driven decision-making.

About the Role

Major Accountabilities (Describe the 5-7 main results of this role to be achieved)

- Assist the Data & Analytics team with technical issues and support data infrastructure needs, including those related to machine learning pipelines and dashboard development.
- Collaborate with Business Analysts and other stakeholders to translate business requirements into technical specifications and actionable insights.
- Work closely with Data Scientists to streamline data workflows and support the development, deployment, and monitoring of machine learning models.
- Design, build, test, and maintain optimal data platform architecture in either AWS or Snowflake with DD&IT (i.e., IT Dept.).
- Leverage Snowflake's advanced capabilities to manage and optimize large-scale data warehousing and analytics.
- Build infrastructure required for optimal extraction, transformation, and loading of data from a wide variety of data sources in partnership with DD&IT.
- Apply best practices in data quality, data security, and data governance.
- Develop and maintain Power BI dashboards and reports to visualize key metrics and support business decision-making.
- Support MLOps practices by integrating model versioning, automated retraining, and performance monitoring into the data platform.

Key Performance Indicators (Indicate how performance for this role will be measured)

- Customer satisfaction evaluation.
- Customer satisfaction rating / feedback by internal stakeholders (Business Franchise Head, relevant management members, and DD&IT members).
- Analytics and machine learning projects resulting in better decision-making or tangible actions.
- Improvement in data literacy and promotion of a culture of fact- and data-driven decision-making.
- Successful deployment and operational stability of machine learning models and Power BI dashboards.

Job Dimensions (Indicate key facts and figures)

Number of associates:

N.A.

Financial responsibility:

(Budget, Cost, Sales, etc.)

N.A.

Impact on the organisation:

N.A.

Background (State the required education, experience level, and competency profile)

Education:

- Bachelor's degree and above in Analytics, Information Systems Management, Computer Science or related fields

Experience/Professional requirement:

- Experience designing efficient, robust, and automated data pipelines and ETL workflows, and developing cloud-based solutions using AWS, Snowflake, or other cloud providers.
- Hands-on experience with Snowflake, especially in managing large-scale data warehousing and analytics.
- Strong programming skills in at least one object-oriented or functional language such as Python, Scala, or R.
- Familiarity with relational and NoSQL databases, and strong SQL skills.
- Experience with big data tools such as Hadoop, Spark, Kafka, etc.
- Experience in supporting machine learning workflows, including data preparation, feature engineering, model deployment, and monitoring.
- Understanding of MLOps tools and practices (e.g., MLflow, SageMaker, Airflow).
- Proficiency in developing interactive dashboards and reports using Power BI, including DAX, Power Query, and data modeling.
- Proven ability to perform root cause analysis on data and processes to answer specific business questions and identify opportunities for improvement.
- Domain experience in areas such as the pharmaceutical industry, customer analytics, CRM, and digital marketing is a plus.
- Excellent documentation, communication, and presentation skills, including the ability to explain technical findings to non-expert audiences.
- Strong stakeholder management and team collaboration skills.
- Demonstrated leadership in managing cross-functional teams and delivering complex projects.
- Proven ability to foster a collaborative and motivated team environment and to lead through organizational change.

English Skill:

- Business level is required

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