NOVARTIS

Sr Principal Data Software Engineer

Job ID
REQ-10019314
Sep 11, 2024
India

Summary

Data Engineer in Data Engineering
architects and builds data intensive products, platforms, pipelines and systems leveraging data engineering best practices and strength in data ingestion, modeling, extraction, and highly leveraging scalable data management systems

About the Role

Where data is the primary challenge (quantity of data, the complexity of data, or the speed at which it is changing), **focusing on increasing business value, enhance BR decision-making and enable a data-centric culture** by

- designing and implementing data-intensive products, platforms, pipelines, and systems

- sharing data-intensive expertise, tools, and techniques

- implementing and improving the health, security, integrity, and quality of our interconnected data ecosystem

We are seeking a highly competent and versatile data engineer to join our team. The chosen candidate should possess the skills needed to prepare data for machine learning and statistical data science by cleaning, unifying, scaling, aligning and joining diverse and complex datasets. Your contributions as a data wrangler will be instrumental to our research, machine learning, and data science efforts.

You will have the opportunity to shape the next wave of drug discovery, combining insights from a wealth of data modalities including **various omics datasets (genomics, transcriptomics, proteomics), spatial omics technologies, compound structures, compound activity, protein structures, measurements from cellular experiments and safety studies, histopathology, clinical imaging, and clinical readouts**, and several others.

Major Accountabilities:

- Collaborate closely with data scientists and subject-matter experts to fulfill data needs.

- Validate and ensure the accuracy and quality of data by cleaning, shaping, and sometimes analyzing, normalizing, and conforming it to existing models and vocabularies.

- Identify and rectify data inconsistencies and irregularities.

- Design data models and prepare data artifacts to effectively meet business needs.

- Promote culture of transparency and communication regarding data modifications, lineage, and definitions to all stakeholders.

Desirable Requirements:

- Proven experience as a data wrangler, data analyst, or a similar role.

- Demonstrable data processing expertise in Python, R, bash and other scripting tools.

- Demonstrable data management expertise in relational, document, column and graph datastores.

- Experience building ETL processes in high-performance environments like Databricks, AWS, Snowflake.

- Experience with ML and data libraries such as scikit-learn, pandas, tensorflow, and pytorch

- Understanding and working vocabulary about common machine-learning concepts (training sets vs. test sets, over/under fitting, bias, annotations, feature extraction, RAG, LLMs, classifiers, and so on)

- Excellent English-language oral and written communication skills.

- Experience and familiarity with various data types, including images, tabular, unstructured, and text.

- Habit of communicating pro-actively, asking questions, and seeking clarifications when necessary.

Essential Requirements:

- BS in Computer Science, Informatics or similar, or equivalent practical experience

- English fluent

Why Novartis: Our purpose is to reimagine medicine to improve and extend people's lives and our vision is to become the most valued and trusted medicines company in the world. How can we achieve this? With our people. It is our associates that drive us each day to reach our ambitions. Be a part of this mission and join us! Learn more here: https://www.novartis.com/about/strategy/people-and-culture

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Commitment to Diversity and Inclusion:
Novartis is committed to building an outstanding, inclusive work environment and diverse teams' representative of the patients and communities we serve.

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Why Novartis: Helping people with disease and their families takes more than innovative science. It takes a

community of smart, passionate people like you. Collaborating, supporting and inspiring each other. Combining to achieve breakthroughs that change patients' lives. Ready to create a brighter future together? https://www.novartis.com/about/strategy/people-and-culture

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