NOVARTIS

Senior Expert Data Science (Immunology)

Job ID
REQ-10010172
Sep 02, 2024
India

Summary

The Data Scientist will work alongside quantitative scientists, domain experts and product developers to ensure teams succeed in answering scientific questions using the data42 platform. They will help our users to apply and develop analytical methods and predictive models that deliver impact on research and drug development programs. Furthermore, they will collaborate on analytical pipelines (e.g. for imaging or omics) that can be re-used across the platform. Within the project and when working with our users, data42 data scientists will develop and advocate for good data science practices. data42 Data Scientists will also contribute to the design of our platform, to make it accessible, useful and an appealing toolset for the whole data science and AI community at Novartis.

We are looking for a data scientist bringing expertise in two or more of the following areas:

• Analysis of omics data of various modalities
• Experience with data from Immunology.
• Applied/computational data science and large-scale / 'big data' computation,
• Development and management of disease area focused data pools
• Biostatistics for the analysis of clinical data (SDTM/ADAM) and/or RWE data
• Machine learning / deep learning and large language models

About the Role

Your responsibilities will include, but are not limited to:

- Ensure that scientific teams are enabled and supported to achieve their goals at data42.

- Programmatically (using python or R), identifying and filtering scientifically relevant cohorts of patient data often from very large (20-50k+) individual patient datasets using a range of project specific criteria e.g. age, gender, geography, lab biomarkers, disease states, treatment drugs etc.

- Develops frameworks for generation and reporting of key results, quality benchmarks for data, models, and impact in collaboration with our data scientist users.

- Applies their expertise in biostatistical analysis, machine learning, data visualization and structured/unstructured data analytics towards the scientific goals of their team.

- Contributes to the acceleration of data science through activities such as the development of reusable pipelines for the data preparation and analyses.

- Acts as an advocate for good data science practice across data42.

Minimum Requirements:

- Preferably Ph.D. in scientific or relevant discipline or equivalent.

- At least 2 years of professional experience in the pharmaceutical sector

- Experience with biostatistics in one or more therapeutic areas (strongly preferred clinical data in combination with other data modalities like DNA / RNA / proteomics for multi-modal data analysis)

- Strong experience with R or python for data analysis and statistical modelling specifically for patient level clinical data

- Experience in using machine learning models to predict clinical endpoints using multimodal data.

- Experience with use of AI/GenAI/LLMs for automating or accelerating data- or data science related processes.

- Experience with the principles and tools of good data science practice (e.g. git/versioning).

- Excellent communication and stakeholder management skills

Desirable additional skills in two or more of the following areas:

- Knowledge of CDISC data standard (SDTM, ADaM)

- Experience with pooling of clinical trial data

- Understanding of the drug discovery and development process

- Experience working in the field of Immunology and / or Cardiovascular, Renal, Metabolism (CRM)

- Experience with computational environments for large-scale data science (e.g. high-performance computing or Spark),

- Statistical and machine learning, and / or applied deep learning methods for time series data.

- Experience in using the Foundry platform for data analysis.

- Strongly encouraging candidates with prior biostatistics or other data analytics experience in a pharmaceutical company, in clinical trial environment with clear demonstration of one or more relevant therapeutic area understanding and demonstrated aspirations by either already pursuing a data science role or intending to transition to a data science focused role

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

Join our Novartis Network: Not the right Novartis role for you? Sign up to our talent community to stay connected and learn about suitable career opportunities as soon as they come up: https://talentnetwork.novartis.com/network

Benefits and Rewards: Read our handbook to learn about all the ways we'll help you thrive personally and professionally: https://www.novartis.com/careers/benefits-rewards

Division

Biomedical Research

Business Unit

Pharma Research

Location

India

Site

Hyderabad (Office)

Company / Legal Entity

IN10 (FCRS = IN010) Novartis Healthcare Private Limited

Functional Area

Data Science

Job Type

Full time

Employment Type

Regular

Shift Work

No

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Accessibility and accommodation

Novartis is committed to working with and providing reasonable accommodation to individuals with disabilities. If, because of a medical condition or disability, you need a reasonable accommodation for any part of the recruitment process, or in order to perform the essential functions of a position, please send an e-mail to diversityandincl.india@novartis.com and let us know the nature of your request and your contact information. Please include the job requisition number in your message.

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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