Associate Director Data Science

Job ID
REQ-10050968

5   06, 2025

India

-Understands complex and critical business problems from a variety of stakeholders and business functions, formulate integrated analytical approach to mine data sources, employ statistical methods and machine learning algorithms to contribute solving unmet medical needs, discover actionable insights and automate process for reducing effort and time for repeated use. To manage the definition, implementation and adherence to the overall data lifecycle of enterprise data from data acquisition or creation through enrichment, consumption, retention, and retirement, enabling the availability of useful, clean, and accurate data throughout its usefull lifecycle. High agility to be able to work across various business domains. Integrate business presentations, smart visualization tools and contextual storytelling to translate findings back to business users with a clear impact.Independently set strategy, manage budget, ensuring appropriate staffing and coordinating projects within the area supervised. If managing a team: empowers the team and provides guidance and coaching, with limited guidance from more senior managers.

About the Role

Position Title: Associate Director Data Science

Location – Hyd-India #LI Hybrid

About the role:

Provide analytics support to Novartis internal customers (CPOs & Regional marketing and sales teams) on various projects. Support and facilitate data enabled decision making internal customers using data analysis and data science techniques/methods on internal and external (3rd party) data to solve business problems

Team NBS CONEXTS-I&CS business support in building capabilities by involving in various initiatives like knowledge sharing, on-boarding and training support, support in all business-related tasks/activities, building process documentation and knowledge repositories

Your responsibilities include but are not limited to

- Delivering projects and leading internal customer expectations across multi-channel marketing analytics, Portfolio Analytics, Targeting and Segmentation, Predictive Analytics, Resource Allocation and Optimization
- Build and deliver customer requirements as per agreed SLAs (timeliness, accuracy, quality, etc.) and drive excellent customer satisfaction. Deliver advanced analytical and statistical solutions for various projects related to promotion evaluation, multi-channel marketing (MCM) campaign design, return on investment (value) analysis, resource allocation, segmentation, targeting, and other ad-hoc business questions
- Support exploratory research to identify new areas of application of advanced analytics/data science in providing improved decision-making support. Deliver services through structured project management approach with appropriate documentation and communication throughout the delivery of services.
- Automation of project codes and development of front-end delivery solutions. Support in creation and maintenance of standard operating procedures (SOPs), quality checklists that will enable excellent quality outputs within the function.
- Support in developing and maintaining knowledge repositories that captures qualitative and quantitative reports of brands, disease areas, macroeconomic trends of Novartis operating markets, etc.
- Support team leaders in recruitment and on-boarding of new associates within the organization. Participate in various knowledge sharing sessions that enables growth and improves quality of NBS CONEXTS deliverables across the function.
- Align with all internal functional operating procedures like time tracking, critical metric tracking and reporting, and other internal systems and processes. Comply to all Novartis operating procedures as per legal/IT/HR requirements.

What you'll bring to the role:

- Deriving impactful strategies by defining clear category objectives, working with analytical data, business partners and market expertise. Aligning strategies to measurable target and clearly conveying them to the organization.
- Should have strong quantitative and systems background. Strong analytical thinking with problem solving approach and good ability to understand new data sources in short timeframe and embed them into standard analyses.
- Good understanding of pharmaceutical domain and data would be ideal. Strong partner leadership skills and ability to work with multiple partners.
- Should have worked in an international/Global company with exposure to working in cross-cultural environment. Strong and proactive business results-focus, and proven track record to provide insights that increase efficiency.
- Hands on to Classification (CART, RF, SVM, GBM, etc.) Clustering, Design of Experiments, Monte Carlo Simulations, Statistical Inference, Feature Engineering, Time Series Forecasting o Good to have: Stochastic models, Bayesian Models, Markov Chains, Dynamic Programming and Optimization
- Hands on to Project Management, Solid understanding of MS-Office (MS Excel, VBA, PowerPoint, Access), Learning agility, pharmaceutical industry domain/datasets knowledge – desirable

Desirable Requirements:

- University/Advanced degree in Statistics, Economics, Mathematics, Computer Science, Bioinformatics, Ops Research, is preferable.
- 10-12 years of relevant experience in Data Science. In case of PhD, 6 years post qualification experience. Experience in commercial pharma would be an added bonus.
- Extensive experience required in: Statistical and Machine Learning techniques like Regression (esp., GLM, non-linear, etc.), Classification (CART, RF, SVM, GBM, etc.) Clustering, Design of Experiments, Monte Carlo Simulations, Statistical Inference, Feature Engineering, Time Series Forecasting, Text Mining and Natural Language Processing
- Good to have skills: Stochastic models, Bayesian Models, Markov Chains, Dynamic Programming and Optimization techniques, Deep Learning techniques on structured and unstructured data, Recommender Systems (content and collaborative filtering), etc.
- Hands-On to Tools and Packages: SAS, R, Python, SQL. Exposure to dashboard or web-apps building using Qliksense, R-Shiny, Flask, etc. would be added advantage.

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

You'll receive: You can find everything you need to know about our benefits and rewards in the Novartis Life: https://www.novartis.com/careers/benefits-rewards

Join our Novartis Network: If this role is not suitable to your experience or career goals but you wish to stay connected to hear more about Novartis and our career opportunities, Join the Novartis Network here: https://talentnetwork.novartis.com/network.

Commitment to Diversity & Inclusion:

Novartis embraces diversity, equal opportunity, and inclusion. We are committed to building diverse teams, representative of the patients and communities we serve, and we strive to create an inclusive workplace that cultivates bold innovation through collaboration and empowers our people to unleash their full potential

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

US

Business Unit
Universal Hierarchy Node

India

Hyderabad (Office)

Company / Legal Entity
IN10 (FCRS = INO10) Novartis Healthcare Private Limited

Functional Area
Data and Digital

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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