

Data Scientist I (Global Onco) " >

Job ID

324950BR

Oct 13, 2021

India

Job Description

20+ brands catering to 50+ disease areas! The team of Novartis specialists within Insights & Analytics are on a data and digital transformation journey, using analytics to generate impactful insights for Novartis medicines impacting more than 500 million patients worldwide. The team is poised to enable easier, faster and reliable decisions for Novartis divisions across the globe.

Your responsibilities include but not are limited to:

- Understand sophisticated and critical business problems from Country/Regional/Global business functions, formulate coordinated analytical approach to mine data sources, employ statistical methods, machine learning & deep learning algorithms to discover actionable insights and automate process for reducing effort and time for repeated use. High agility to be able to work across various business domains and divisions (Oncology, GenMeds, Sandoz). Able to use business presentations, impactful visualization of ML results and contextual storytelling to translate findings back to business users with a clear impact. No direct team management.
- Work on a variety of business applications including but not limited to: Customer Segmentation & Targeting, Event Prediction, Propensity Modelling, Churn Modelling, Customer Lifetime Value Estimation, Forecasting, Recommender Systems, Marketing Mix Optimization, Price Optimization
- Be involved in technology research, capability building across newer technologies and tools in Machine Learning ecosystem at scale. Design, run and analyze A/B and multivariate hypothesis tests sought at optimizing customer and patient experience. Also, pick up new skills and technologies necessary on the job
- Articulate solutions/recommendations to business users. Works with senior data science team member to present analytical content concisely and effectively. Develop automation for repeatedly refreshing analysis and generating insights
- Collaborate with globally dispersed internal stakeholders and cross-functional teams to solve critical business problems and deliver successfully on high visibility strategic initiatives. Understand life science data sources including sales, contracting, promotions, social media, patient claims and Real-World Evidence
- Project manage own tasks and works with allied team members; plans proactively, anticipates and actively manages change, sets stakeholder expectations as required. Independently identifies research articles and reproduce/apply methodology to Novartis business problems
- Ability to work independently, demonstrate initiative and flexibility through effective and innovative leadership. Attention to detail and quality focused, excellent interpersonal and communication skills, innovative, and collaborative behaviors & strong "can-do" orientation
- Assist in hiring of new associates for data science roles. Comply to all Novartis operating procedures as per legal/IT/HR requirements

Diversity & Inclusion / EEO

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

Minimum Requirements

What You'll bring to the role:

- Education: PhD or Masters (or Bachelors from a top Tier University) in a quantitative discipline (e.g. Statistics, Economics, Mathematics, Computer Science, Bioinformatics, Ops Research, etc.)
- 7+ years of proven experience in Data Science. In case of PhD, 5+ years post qualification experience. Experience in commercial pharma would be an added bonus.
- Extensive experience required in: Statistical and Machine Learning techniques including but not limited to Regression (esp., GLM, non-linear, etc.), Classification (CART, RF, SVM, GBM, etc.) Clustering, Design of Experiments, Exploratory Data Analysis, Statistical Inference, Feature Engineering, Time Series Forecasting, Text Mining and Natural Language Processing (NLP). Crafting and deploying ML modeling and prediction pipelines
- 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.
- Tools and Packages: Good command over Python, R, SAS. Strong coding skills with the ability to write high-performance code in Python; exposure to PySpark, Tensorflow. Proficient with SQL and Hive. Exposure to Dataiku and UI interface tools like R-Shiny, Streamlit, etc. desirable. Exposure to AWS and ML Pipelines on cloud desirable

Why Novartis?

769 million lives were touched by Novartis medicines in 2020, and while we're proud of this, we know there is so much more we could do to help improve and extend people's lives.

We believe new insights, perspectives and ground-breaking solutions can be found at the intersection of medical science and digital innovation. That a diverse, equitable and inclusive environment inspires new ways of working.

We believe our potential can thrive and grow in an unbossed culture underpinned by integrity, curiosity and flexibility. And we can reinvent what's possible, when we collaborate with courage to aggressively and ambitiously tackle the world's toughest medical challenges. Because the greatest risk in life, is the risk of never trying!

Imagine what you could do here at Novartis!

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.

Join our Novartis Network: If this role is not suitable to your experience or career goals but you wish to stay connected to learn more about Novartis and our career opportunities, join the Novartis Network here:

<https://talentnetwork.novartis.com/network>

Division

CTS

Business Unit

NBS CONEXTS

Location

India

Site

Hyderabad, AP

Company / Legal Entity

Nov Hltcr Shared Services Ind

Functional Area

Data Science

Job Type

Full Time

Employment Type

Regular

Shift Work

No

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