

Associate Director - Data Science

Job ID

REQ-10072863

Mar 16, 2026

LOC_IN

About the Role

Location – Hyderabad #LI Hybrid

Key Accountability :

- Lead the development and deployment of scalable AI solutions, focusing on advanced AI applications across various business units.
- Be prepared to engage in hands-on work when necessary to support the team and further our data science initiatives.
- Collaborate with cross-functional teams to integrate AI-driven solutions across various platforms and services.
- Drive innovation by staying current with advancements in AI, particularly in generative models and LLM technologies.
- Champion the exploration and integration of cutting-edge AI technologies, particularly in the field generative AI.
- Act as a key liaison between the US commercial team and the India-based data science team.
- Lead the design and deployment of agentic AI systems, including autonomous agents, multi-agent workflows, and orchestration frameworks (e.g., ReAct, AutoGPT-style planners, tool-using agents).
- Define standards and reusable blueprints for enterprise-ready AI agents that support decision-making, workflow automation, and adaptive reasoning.
- Lead internal capability uplift by training teams on agent design patterns, orchestration flows, memory management, tool-use, and safety layers.
- Stay abreast of state-of-the-art foundation models and other innovative trends in data science and leverage these insights to inform our strategies.
- Bring a “can-do” attitude and teamwork and inspire others on culture change.
- Acts as an AI role model, championing a culture that embraces cutting-edge AI technologies and encourages experimentation and adoption of best practices
- Drive collaboration with East Hanover and Hyderabad teams ensuring effective knowledge transfer and alignment on priorities.

Essential Requirements:

- Minimum of 10 years of experience in data science, with 6-8 years of experience in the pharmaceutical industry
- Build and deploy scalable machine learning models using cloud-based services such as AWS and Azure
- Strong understanding of deep learning algorithms, foundational/ LLM models, statistics, and recommendation system and Predictive Analytics
- Demonstrated experience in LLM implementation and scaling, including the development of reusable components, pipelines, and architecture to support enterprise-wide use cases
- Proven track record of LLM product ownership and execution, driving the full lifecycle from use-case definition and development to deployment, adoption, and continuous improvement
- Experience in Agentic AI concepts and design, including autonomous agents and orchestration frameworks to support dynamic decision-making across business processes
- Deep understanding of agentic AI concepts, including autonomous task execution, tool-calling agents, planning/critic/executor patterns, and multi-agent collaboration frameworks.
- Hands-on experience building or scaling LLM-powered agents for workflow automation, decision support, or enterprise knowledge retrieval.
- Experience with orchestration platforms such as LangChain, LlamaIndex, Haystack, DSPy, or Azure/AWS agent

frameworks.

- Demonstrated ability to convert LLM and agent prototypes into reusable enterprise components, enabling application across multiple use cases.
- Ability to operate in a hands-on capacity when necessary.
- Proficient in programming languages such as Python, Spark, TensorFlow, and PyTorch
- Experience with digital channel selection for “next best action”
- Excellent problem-solving skills and ability to identify creative solutions to complex problems
- Strong ability to effectively communicate and work across different time zones
- Supports direct reports and also delivers own individual contribution

Education (minimum/desirable):

- Bachelor's degree in related field is required; Master of Science and/or MBA strongly preferred

Additional qualifications are as follows:

- Minimum 10 years of experience in analytics, decision science, or related roles, preferably in the pharmaceutical or healthcare sector
- Ability to balance operational execution with high-level strategic thinking, supporting both day-to-day performance and long-term business goals
- Ability to work collaboratively with cross-functional teams, including sales, data Operations, and product development and drive strategic initiatives

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/roadmap/people-and-culture>

Commitment to Diversity & Inclusion:

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

Values and Behaviors: Demonstrates and upholds Novartis values and behaviors in all aspects of work and collaboration.

Location: Hyderabad NKC. Hybrid | 3 days a week in office is mandatory.

Role Requirements

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Benefits and Rewards: Learn about all the ways we'll help you thrive personally and professionally.

[Read our handbook \(PDF 30 MB\)](#)

Division

DIV_IU

Business Unit

General Management

Location

LOC_IN

Site

Hyderabad (Office)

Company / Legal Entity

IN10 (FCRS = IN010) Novartis Healthcare Private Limited

Functional Area

FCT_DD

Job Type

Full time

Employment Type

Regular

Shift Work

No

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