

Associate Director -Gen AI/ML(MLops, Gen AI & Azure)

Job ID
REQ-10043201
Mar 06, 2025
India

Summary

Location: Hyderabad

• The role is to lead the design, development and deployment of cutting-edge machine learning and generative AI solutions to tackle Novartis business challenges.

About the Role

Major accountabilities:

- **Solution Design:** Architect scalable GenAI solutions for drug discovery, medical writing automation, clinical trials, regulatory submissions, and real-world evidence generation.
- **LLM Development & Optimization:** Work with data scientists and ML engineers to develop, fine-tune, and optimize large language models (LLMs) for life sciences applications, such as scientific literature analysis, regulatory intelligence, and patient engagement.
- **AI Infrastructure:** Design GenAI solutions leveraging cloud platforms (AWS, Azure, GCP) or on-premises infrastructure while ensuring data security and regulatory compliance.
- **MLOps & Deployment:** Implement best practices for GenAI model deployment, monitoring, and lifecycle management within **GxP-compliant** environments.
- **Compliance & Governance:** Ensure GenAI solutions comply with **regulatory standards (FDA, EMA, GDPR, HIPAA, GxP, 21 CFR Part 11)** and adhere to responsible AI principles, including bias mitigation and exploitability.
- **Performance Optimization:** Drive efficiency in generative AI models, ensuring cost optimization and scalability while maintaining data integrity and compliance.
- **Stakeholder Collaboration:** Work with cross-functional teams, including **platform teams, engineering teams from various supplier/vendors** to align GenAI initiatives with enterprise and industry-specific requirements.
- **Research & Innovation:** Stay updated with the latest advancements in **GenAI, multimodal AI, AI agents, and synthetic data generation** to incorporate emerging technologies into the company's AI strategy.

Minimum Requirements

- Bachelor's or master's degree in computer science, AI, Data Science, Bioinformatics, or a related field.
- **Experience:** 12+ years' experience in Big data, AI/ML development with at least 8 years in an AI Architect or GenAI Architect role in pharma, biotech, or life sciences.

- **Technical Expertise:**
 - Strong proficiency in **Generative AI, large language models (LLMs), multimodal AI, and deep learning** for pharma applications.
 - Hands-on experience with AI/ML frameworks (TensorFlow, PyTorch, Hugging Face, LangChain, Scikit-learn, etc.).
 - Experience with data engineering, ETL pipelines, and big data technologies (Spark, Kafka, Databricks, etc.).
 - Knowledge of cloud AI services (AWS Bedrock, Azure OpenAI, Google Vertex AI).
 - Lead the deployment of a Lightweight LLM in a Pharma SaaS Platform
- **MLOps & DevOps:** Familiarity with CI/CD, containerization (Docker, Kubernetes), vector databases, and real-time model monitoring.
- **Regulatory & Ethical AI:** Understanding of AI governance, responsible AI principles, and compliance requirements for GenAI in pharma.
- **Problem-Solving:** Strong analytical and problem-solving skills with the ability to design innovative GenAI solutions for life sciences use cases.
- **Communication & Leadership:** Excellent communication skills to articulate GenAI strategies and solutions to technical and non-technical stakeholders

Why consider 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>

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.

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>

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

Operations

Business Unit

CTS

Location
India
Site
Hyderabad (Office)
Company / Legal Entity
IN10 (FCRS = IN010) Novartis Healthcare Private Limited
Functional Area
Technology Transformation
Job Type
Full time
Employment Type
Regular
Shift Work
No
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REQ-10043201

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