NOVARTIS

Sr. Specialist - AI/ML(MLops, Gen AI & Azure)

Job ID
REQ-10041949

Feb 27, 2025

India

Summary

Location: Hyderabad
As an AI Technical Specialist, you will play a key role in developing and implementing advanced AI solutions, working closely with suppliers and vendors to ensure successful rollout and integration

About the Role

Major Accountabilities

- **Solution Development:** Design and implement scalable Generative AI solutions for applications such as drug discovery, medical writing automation, clinical trials, regulatory submissions, and real-world evidence generation.
- **LLM Development & Optimization:** Collaborate with data scientists and ML engineers to develop, fine-tune, and optimize large language models (LLMs) for life sciences applications, including scientific literature analysis, regulatory intelligence, and patient engagement.
- **AI Infrastructure:** Contribute to the design of Generative AI solutions leveraging cloud platforms (AWS, Azure, GCP) or on-premises infrastructure, 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 Generative AI solutions comply with regulatory standards (FDA, EMA, GDPR, HIPAA, GxP, 21 CFR Part 11) and adhere to responsible AI principles, including bias mitigation.
- **Performance Optimization:** Drive efficiency in generative AI models, focusing on cost optimization and scalability while maintaining data integrity and compliance.
- **Stakeholder Collaboration:** Work with cross-functional teams, including platform teams and engineering teams from various suppliers/vendors, to align Generative AI initiatives with enterprise and industry-specific requirements.
- **Research & Innovation:** Stay current with the latest advancements in Generative AI, multimodal AI, AI agents, and synthetic data generation to incorporate emerging technologies.

Required Qualifications:

- Bachelor's or master's degree in computer science, AI, Data Science, Bioinformatics, or a related field.
- **Experience:** 8+ years' experience in Big data, AI/ML development with at least 6 years in an AI/ML 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).
- Experience in 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 Generative AI in pharma.
- **Problem-Solving:** Strong analytical and problem-solving skills with the ability to develop innovative Generative AI solutions for life sciences use cases.
- **Communication:** Good communication skills to articulate AI 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:
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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?
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