Sr. Spec. DDIT IES Cloud Engineering

Job ID
REQ-10023733

10月 11, 2024

India

-IT Specialist accountable to design, build, and deploy cutting-edge AI and Generative AI infrastructure on AWS platform, tailored for pharmaceutical business use-cases. The platform will facilitate pharma research scientists and other business users for early molecule development and other research activities by providing robust, scalable, and secure computing resources.

About the Role

MAJOR ACCOUNTABILITIES

- **Architect and Design**: Lead the design and architecture of an AWS-based AI infrastructure platform, with a focus on supporting Generative AI workloads and advanced analytics for pharma business use-cases.
- **Platform Development**: Develop and deploy scalable AI solutions, leveraging AWS's suite of

services, including AWS Bedrock, Q, SageMaker, App Studio and AI Infrastructure tools.

- **Data Management**: Oversee the design and implementation of data storage, retrieval, and processing pipelines, ensuring the efficient handling of large datasets, including genomic and chemical compound data.
- **Security and Compliance**: In collaboration with cloud domain security architects, implement robust security measures and ensure compliance with relevant industry standards, particularly in handling business sensitive data.
- **Collaboration**: Work closely with data scientists, research scientists, and other business stakeholders to understand their needs and translate them into technical solutions.
- **Performance Optimization**: Optimize the performance and cost-efficiency of the platform, including monitoring and scaling resources as needed.
- **Innovation**: Stay updated with the latest trends and technologies in AI and cloud infrastructure, continuously exploring new ways to enhance the platform's capabilities.

Additional Specifications Required for the Position:

- Bachelor's degree in Information Technology, Computer Science, or Engineering.
- AWS Solution Architect certification – professional
- 8+ years of strong technical hands-on experience of delivering infrastructure and platform services across geographic and business boundaries
- Minimum 5+ years' of technical hands-on experience in AWS Solution Architect / Design Expert role for large enterprises
- Deep understanding of Architecture and Design of Platform Engineering products with focus mainly on Data science/ML compute products, Cognitive, (Gen)AI, etc.
- Extensive experience in building infra solutions on AWS, particularly with services like AWS Bedrock, Amazon Q, SageMaker, App Studio, Machine Learning and ECS/EKS
- Proficiency in AI and Machine Learning frameworks (TensorFlow, PyTorch, Keras) and familiarity with model deployment and operationalization (MLOps).
- Solid hands-on experience in Generative AI techniques, including Natural Language Processing (NLP), Generative Adversarial Networks (GANs), and transformer models.
- Good understanding of data engineering, including ETL processes, data warehousing, and working with both structured and unstructured data.
- Knowledge of containerization and orchestration technologies, such as Docker and Kubernetes.
- Experience with DevOps practices and tools, including CI/CD pipelines, infrastructure as code (IaC), and monitoring solutions.
- Excellent skills in collaborating with business users, Product team, Operationalizing the delivered products, working closely with Security for implementing compliance, close interaction with Cloud operations team for provisioning Azure services.
- Good knowledge on implementing well defined & industry standard Change management process for platform & its products. Have a well-structured Use-case onboarding process. Should ensure to have documentation for Platform products and implementations done.
- Experience with DevOps Orchestration/Configuration/Continuous Integration Management technologies
- Good understanding of High Availability and Disaster Recovery concepts for infrastructure
- Ability to analyze and resolve complex infrastructure resource and application deployment issues.

KEY PERFORMANCE INDICATORS / MEASURES OF SUCCESS

- Adherence to the Novartis IT quality standards
- Deliver on time
- Cost optimization
- Completeness and quality of deliverables
- Customer feedback (expectations met/exceeded)
- Application on boarding delivery success
- Actively contribute to the business with innovative solutions that show results in the form of cost optimization and / or growth of the business top line revenue.

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

Operations

Business Unit
CTS

India

Hyderabad (Office)

Company / Legal Entity
IN10 (FCRS = IN010) Novartis Healthcare Private Limited

Alternative Location 1
Prague, Czech Republic

Functional Area
Technology Transformation

Job Type
Full time

Employment Type
Regular

Shift Work
No

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