

## Al Technical Lead / Architect

Job ID	
REQ-100395	512

Feb 26, 2025

Spain

# Summary

We are looking for an experienced AI Technical Lead / Architect with strong skills in machine learning and generative AI. In this role you will offer technical direction, promote new ideas, and ensure the successful rollout of advanced AI solutions to enhance our drug development capabilities.

The ideal candidate will guide our AI projects, offer technical direction, promote new ideas, and ensure the successful rollout of advanced AI solutions. Ultimately, you will have a critically important positive impact on the lives of patients.

### About the Role

Key Responsibilities:

• GenAl Strategy & Roadmap: Define and implement a generative Al architecture and roadmap aligned with business goals in pharma and life sciences.

- Solution Design: Architect scalable GenAl 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.
- Al Infrastructure: Design GenAl solutions leveraging cloud platforms (AWS, Azure, GCP) or on-premises infrastructure while ensuring data security and regulatory compliance.
- MLOps & Deployment: Implement best practices for GenAl model deployment, monitoring, and lifecycle management within GxP-compliant environments.
- Compliance & Governance: Ensure GenAl solutions comply with regulatory standards (FDA, EMA, GDPR, HIPAA, GxP, 21 CFR Part 11) and adhere to responsible Al 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, and Drug Development teams, to align GenAl initiatives with enterprise and industry-specific requirements.
- Research & Innovation: Stay updated with the latest advancements in GenAl, multimodal Al, Al agents, and synthetic data generation to incorporate emerging technologies into the company's Al strategy.

## Required Qualifications:

- Bachelor's or master's degree in computer science, AI, Data Science, Bioinformatics, or a related field.
- 10+ years' experience in Big data, Al/ML development with at least 2 years in an Al Architect or GenAl Architect role in pharma, biotech, or life sciences.
- Strong proficiency in Generative AI, large language models (LLMs), multimodal AI, and deep learning for pharma applications, including experience leading the deployment of a Lightweight LLM on a SaaS Platform.
- Exposure to AI/ML frameworks (TensorFlow, PyTorch, Hugging Face, LangChain, Scikitlearn, etc.).
- Experience with data engineering, ETL pipelines, and big data technologies (Spark, Kafka, Databricks, etc.).
- Solid knowledge of cloud AI services (AWS Bedrock, Azure OpenAI).
- Strong familiarity with CI/CD, containerization (Docker, Kubernetes), vector databases, and real-time model monitoring.
- Proficiency in English (oral & written).

#### Preferred Qualifications:

- Experience deploying LLMs in a Pharma SaaS Platform
- Experience in Al/GenAl applications within a LlfeScience, Pharmaceutical or Biomedical field
- AI/ML certifications from AWS, Google, or Microsoft.

#### How can we achieve this?

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