NOVARTIS

Director of AI Architecture & Applied AI, Drug Development

Job ID
REQ-10093325

十一月 18, 2026

India

摘要

#LI-Onsite

Internal job title: Director - AI Architect - DDIT DEV DATA ANALYTICS DSAI

Locations: Hyderabad, India or Barcelona, Spain

Relocation support to Hyderabad or Barcelona may be considered for suitable candidates, subject to eligibility, business requirements and approval.

Help shape the future of AI in Drug Development at Novartis. As Director of AI Architecture and Applied AI, you will define enterprise-scale architecture that moves AI beyond isolated solutions and enables reusable, secure and context-aware capabilities across the organisation.

This is a hands-on technical leadership role for an architect who can combine current agentic and generative AI expertise with enterprise thinking, architecture governance and senior stakeholder influence. You will help build the foundations that allow AI systems to reason over trusted enterprise context and interact safely with tools, data and business processes.

About the Role

Key responsibilities

- Define the enterprise AI target architecture, reference patterns, standards and technology roadmap for Drug Development.
- Design agentic AI and multi-agent architectures covering reasoning, planning, orchestration, tool use, memory, agent-to-agent communication and human oversight.
- Translate business problems and use cases into scalable enterprise AI capabilities rather than isolated, solution-specific implementations.
- Design semantic and context layers using ontologies, metadata, knowledge graphs and context engineering to make structured and unstructured information usable by people and machines.
- Establish reusable patterns for RAG, GraphRAG, enterprise search, grounding, provenance, citations and integration through APIs, MCP and AI gateways.
- Guide architecture across enterprise AI platforms, foundation and domain models, multimodal AI, model routing and cloud services, including AWS-based agentic capabilities.
- Lead architecture governance through the AI Architecture Review Board, ensuring solutions are interoperable, secure, scalable, compliant and aligned with enterprise standards.
- Drive AI industrialisation through LLMOps, MLOps and AgentOps practices, including CI/CD, evaluation, observability, reliability, scalability and cost optimisation.
- Influence senior business, Data Science, Engineering, Platform, Enterprise Architecture, Security and external stakeholders, while developing the technical capability of the wider team.
- Evaluate emerging AI technologies and promote trusted, reusable AI across clinical, regulatory and scientific workflows.

Essential requirements

- Significant experience in AI development and architecture, including recent hands-on work designing generative AI and agentic AI solutions in enterprise environments.
- Demonstrated experience defining enterprise AI architecture, reusable patterns and architecture governance beyond individual projects or point solutions.
- Practical experience with AI agents, multi-agent orchestration, foundation models, cloud AI platforms and enterprise integration patterns.

- Experience working with semantic or context layers, including ontologies, knowledge graphs, semantic models and management of unstructured data.

- Strong knowledge of AI engineering and operations, including Python, modern AI/ML frameworks, LLMOps, MLOps or AgentOps, CI/CD, evaluation and observability.

- Ability to lead through technical authority, collaborate across internal and external teams and influence senior business and technology stakeholders.

- Strong understanding of Responsible AI, security, privacy, access controls, governance, compliance and auditability.

- Bachelor's or Master's degree in Computer Science, Artificial Intelligence, Data Science, Bioinformatics or a related discipline, or equivalent relevant experience.

Desirable requirements

- AI architecture experience within pharmaceutical Drug Development, biotech, life sciences or another complex regulated environment.

- Experience with AWS Bedrock or comparable cloud AI services, enterprise Claude offerings, Azure AI/OpenAI, Google Vertex AI, MCP, RAG or GraphRAG.

Benefits and rewards

The rewards of being part of our team go beyond base pay and incentives. We offer a range of benefits to help colleagues thrive personally and professionally, including insurance and wellbeing programmes, retirement benefits, recognition programmes, paid leave and parental leave. Further details about the India benefits package and any applicable incentive or long-term incentive eligibility will be shared during the application process.

Benefits and compensation may vary according to local legal requirements and Novartis policies. A full overview of the compensation package applicable to the role and employment location will be communicated separately during the application process.

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.

Accessibility and accommodation

Novartis is committed to working with and providing reasonable accommodation to individuals with disabilities. If, because of a medical condition or disability, you need a reasonable accommodation for any part of the recruitment process, or in order to perform the essential functions of a position, please send an e-mail to diversityandincl.india@novartis.com and let us know the nature of your request and your contact information. Please include the job requisition number in your message.

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

Benefits and Rewards: Learn about all the ways we ' ll help you thrive personally and professionally. Read our handbook (PDF 30 MB)

部门
Operations

Business Unit
Information Technology

地点
India

站点
Hyderabad (Office)

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

Functional Area
Data and Digital

Job Type
Full time

Employment Type
Regular

Shift Work
No

```
var kPlayer = KalturaPlayer55802022 || KalturaPlayer; var config = { targetId: "kalturaplayer6afeab056c358137795098", provider: { widgetId: "10m7rm1pm", partnerId: "2076321", uiConfId: "55802022" }, playback: { autoplay: false, autopause: false, muted: false, loop: false }, sources: { options: {}, startTime: 0 }, disableUserCache: "true", plugins: {}, sources: { options: {}, startTime: 0 }, ui: { showCCButton: false, settings: { showQualityMenu: true, showSpeedMenu: false }, components: { fullscreen: { disableDoubleClick: false } }, uiComponents: [ { presets: ['Playback', 'Live'], area: 'BottomBarRightControls', replaceComponent: 'Fullscreen', get: kPlayer.ui.components.Remove } ] } }; // Check and add plugins only if they exist if (kPlayer.plugins["download"]) { config.plugins.download = { disable: true }; } if (kPlayer.plugins["transcript"]) { config.plugins["playkit-js-transcript"] = { position: "right", // Default: bottom;('left', 'right', 'top', 'bottom') to enable transcript. expandMode: "over", // Default: alongside;('alongside', 'hidden', 'over') expandOnFirstPlay: false, showTime: true, downloadDisabled: false, printDisabled: false, disable: true }; } if (kPlayer.plugins["preventSeek"]) { config.plugins.preventSeek = { preventSeekForward: false, preventSeek: false }; } config.plugins.floating = { disable: true }; if (kPlayer.plugins["navigation"]) { config.plugins.navigation = { position: "right", expandMode: "over", expandOnFirstPlay: false, visible: false }; } if (kPlayer.plugins["hotspots"]) { config.plugins['playkit-js-hotspots'] = { disable: true }; } if (kPlayer.plugins["moderation"]) { config.plugins['playkit-js-moderation'] = { disable: true }; } if (kPlayer.plugins["info"]) { config.plugins['playkit-js-info'] = { disable: true }; } if (kPlayer.plugins["share"]) { config.plugins.share = { disable: true }; } config.ui.uiComponents = []; if (kPlayer.plugins["googleAnalytics"]) { config.plugins.googleTagManager = {}; config.plugins.googleTagManager.customEventsTracking = {}; config.plugins.googleTagManager.containerId = 'GTM-57RJQ5'; config.plugins.googleTagManager.customEventsTracking.custom = []; config.plugins.googleTagManager.customEventsTracking = { preset: { coreEvents: true, UIEvents: false, playlistEvents: false, castEvents: false } }; }
```

```
// Ensure the global player registry array always exists, regardless of embed type. window.kalturaPlayerVideos = window.kalturaPlayerVideos || []; try { var thumbEmbedPromise = thumbnailEmbed({config, mediaInfo: {entryId: "1dgfvmafo"}}); // thumbnailEmbed() returns a Promise that resolves with the player instance // when the user clicks the thumbnail. Use .then() to capture the player directly. thumbEmbedPromise .then(function(player) { window.kalturaPlayerVideos.push(player); // Notify kaltura datalayer.js that a new player is ready so it can // attach custom event listeners immediately, regardless of when // the user clicked the thumbnail relative to page load. document.dispatchEvent(new CustomEvent('kalturaPlayerReady', { detail: { player: player } })); }) .catch(function(error) { console.error(error); }); } catch (e) { console.error(e.message) }
```

Accessibility and accommodation

Novartis is committed to working with and providing reasonable accommodation to individuals with disabilities. If, because of a medical condition or disability, you need a reasonable accommodation for any part of the recruitment process, or in order to perform the essential functions of a position, please send an e-mail to diversityandincl.india@novartis.com and let us know the nature of your request and your contact information. Please include the job requisition number in your message.

Job ID
REQ-10093325

Director of AI Architecture & Applied AI, Drug Development

Apply to Job



Job ID
REQ-10093325

Director of AI Architecture & Applied AI, Drug Development

Apply to Job

Source URL:
https://www.novartis.com.cn/careers/career-search/job/details/req-10093325-director-ai-architecture-

applied-ai-drug-development

List of links present in page

1. https://www.novartis.com/about/strategy/people-and-culture
2. https://www.novartis.com/sites/novartiscom/files/novartis-life-handbook.pdf
3. mailto:diversityandincl.india@novartis.com
4. https://novartis.wd3.myworkdayjobs.com/en-US/NovartisCareers/job/Hyderabad-Office/Director-of-AI-Architecture---Applied-AI--Drug-DevelopmentREQ-10093325-1
5. https://novartis.wd3.myworkdayjobs.com/en-US/NovartisCareers/job/Hyderabad-Office/Director-of-AI-Architecture---Applied-AI--Drug-DevelopmentREQ-10093325-1