NOVARTIS

Senior Semantic Data & Knowledge Engineer

Job ID
REQ-10091481
Nov 05, 2026
LOC_IN

About the Role

Key Responsibilities:

- Knowledge Modelling & Semantic Design: Develop and maintain ontologies, taxonomies, semantic models, and business glossaries; Define relationships between business concepts, policies, controls, processes, and data assets; Build and maintain enterprise knowledge graphs and semantic repositories; Translate business knowledge into AI-ready semantic structures; Support standardization of enterprise business terminology.
- Metadata Management & Governance: Support metadata onboarding, stewardship, governance, and quality initiatives; Maintain metadata repositories and catalog assets; Support business glossary development and governance processes; Collaborate with data stewards, domain owners, and governance teams; Ensure metadata standards and quality requirements are met.
- Semantic Layer Implementation: Support implementation and maintenance of Semantic Layer capabilities; Configure and maintain semantic models and business mappings; support onboarding of business domains and enterprise data products; Ensure consistency between source systems and semantic representations.
- Knowledge Management & Enterprise Search: Support semantic search and enterprise knowledge discovery initiatives; Improve discoverability of structured and unstructured knowledge assets; Enable enterprise search experiences powered by semantic technologies; Support knowledge repositories used by business users and AI applications.
- AI, RAG & Knowledge Graph Enablement: Support implementation of RAG and GraphRAG architectures; Create and maintain knowledge assets used by AI assistants, copilots, and agents; Support AI grounding through enterprise knowledge repositories; Assist in testing, validation, and optimization of AI-enabled knowledge solutions.
- Business Domain Collaboration: Work closely with business SMEs and domain owners, and model business knowledge across: P&O, Legal, Security, ERC, ESG, Corporate Affairs, Internal Audit, Corporate Communications, Finance (selected domains); Support harmonization of definitions, terminology, controls, policies, and business concepts.

Essential Requirements:

- Bachelor's or Master's degree in Information Management, Computer Science, Data Science, Analytics, AI, or related field.
- 5+ years of experience in Knowledge Management, Metadata Management, Data Governance, Analytics, Semantic Technologies, or AI-related domains.
- Experience supporting enterprise data, analytics, or AI programs.
- Experience working with metadata, taxonomy, ontology, or knowledge management initiatives.
- Technical expertise in: AWS Data Platforms, Knowledge Graphs, Ontology Development, Taxonomy Design, RAG / GraphRAG, Vector Databases

Desirable requirements:

- Technical expertise in: Microsoft Fabric, Amazon Neptune, Collibra, Metadata Management, Semantic Layer Technologies, Enterprise Search, AI Knowledge Repositories, API and Integration Technologies
- Experience and knowledge in People & Organization domain: Core HR, Workforce Planning, People Analytics, Talent

& Skills Intelligence, Learning & Development, Organizational Effectiveness, Employee Experience
- Experience and knowledge in Corporate Functions domain: Legal, Security & Information Security, Ethics, Risk & Compliance (ERC), Environmental, Social & Governance (ESG), Corporate Affairs, Internal Audit, Corporate Communications, Finance

Commitment to Diversity & Inclusion:

We are committed to building an outstanding, inclusive work environment and diverse teams representative of the patients and communities we serve.

Why 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

Join our Novartis Network: If this role is not suitable to your experience or career goals but you wish to stay connected to learn more about Novartis and our career opportunities, join the Novartis Network here:
https://talentnetwork.novartis.com/network

Accessibility and accommodation:
Novartis is committed to working with and providing reasonable accommodation to all individuals. If, because of a medical condition or disability, you need a reasonable accommodation for any part of the recruitment process, or in order to receive more detailed information about the essential functions of a position, please send an e-mail to and let us know the nature of your request and your contact information. Please include the job requisition number in your message.

Role Requirements

Division
DIV_TO
Business Unit
Information Technology
Location
LOC_IN
Site
Hyderabad (Office)
Company / Legal Entity
IN10 (FCRS = IN010) Novartis Healthcare Private Limited
Functional Area
FCT_IT
Job Type
Full time
Employment Type
Regular
Shift Work
No
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