

# Knowledge Graph Market by Solution (Enterprise Knowledge Graph Platform, Graph Database Engine, Knowledge Management Toolset), Model Type (Resource Description Framework (RDF) Triple Stores, Labeled Property Graph) - Global Forecast to 2032

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## Abstracts

The knowledge graph market is estimated at USD 1.90 billion in 2026 and USD 9.88 billion by 2032, growing at a compound annual growth rate (CAGR) of 31.6%. The growth of the market is largely driven by the increasing need among organizations to manage large volumes of interconnected data and extract meaningful insights from it. As enterprises continue to deal with both structured and unstructured data, knowledge graphs are being adopted to provide a unified and contextual view of information.

The use of artificial intelligence has further accelerated the development and adoption of knowledge graphs. Technologies such as natural language processing (NLP) and machine learning are being used to automatically identify entities, relationships, and patterns within data. This reduces the need for manual intervention and improves the efficiency and accuracy of knowledge graph creation. At the same time, knowledge graphs are being used alongside generative AI models to improve the relevance and reliability of outputs by providing structured context and better data grounding.

Organizations are increasingly using knowledge graphs for applications such as semantic search, recommendation systems, fraud detection, and customer data integration. With the growing focus on data-driven decision-making, knowledge graphs are gradually becoming an important part of modern data architectures.

**“By solution, the graph database engine segment is estimated to hold the largest market size during the forecast period.”**

Graph database engines are expected to account for the largest share of the knowledge graph market, as they form the core technology for storing and managing connected data. Unlike traditional databases that organize data in tables, graph databases represent data as nodes and relationships, making them well-suited for applications where connections between data points are critical. These databases allow faster querying and traversal of complex datasets, enabling organizations to analyze relationships more efficiently. They are widely used in applications such as social networks, recommendation engines, fraud detection, and network analysis. Graph databases support query languages such as Cypher and SPARQL, which are specifically designed to handle relationship-based queries.

In recent years, graph database engines have also evolved to support integration with AI and advanced analytics. Capabilities such as real-time processing, graph algorithms, and integration with machine learning models are further increasing their adoption across industries.

**“The services segment to register the fastest growth rate during the forecast period.”**

The services segment is projected to grow at the highest rate during the forecast period, as organizations require external expertise to implement and manage knowledge graph solutions effectively. Knowledge graph deployments often involve complex data integration, modeling, and system design, which increases the demand for professional services. Professional services include consulting, design, and implementation support, helping organizations define use cases, build data models, and integrate knowledge graphs with existing systems. These services are important for ensuring that the solutions are aligned with business requirements and deliver expected outcomes. Managed services, on the other hand, focus on the ongoing maintenance and optimization of knowledge graph platforms. This includes monitoring system performance, ensuring data quality, and managing updates and scalability. As organizations look to reduce internal workload and focus on core business activities, the demand for managed services is expected to increase steadily.

**“Asia Pacific to witness the highest market growth rate during the forecast period.”**

Asia Pacific is expected to witness the highest growth rate in the knowledge graph market during the forecast period. This growth is driven by increasing investments in

digital transformation, growing adoption of AI technologies, and the expansion of data-driven initiatives across the region. Countries such as China, India, Japan, and Singapore are actively adopting advanced data technologies to improve decision-making and operational efficiency. Knowledge graphs are being used across industries such as banking, healthcare, telecommunications, and e-commerce to manage complex data and gain better insights. In addition, the availability of cloud infrastructure and the growing ecosystem of technology providers in the region are supporting the adoption of knowledge graph solutions. Organizations are increasingly focusing on building integrated data environments, where knowledge graphs play a key role in connecting data across different systems and enabling more informed decision-making.

In-depth interviews have been conducted with chief executive officers (CEOs), Directors, and other executives from various key organizations operating in the Knowledge Graph market.

By Company Type: Tier 1 - 40%, Tier 2 - 35%, and Tier 3 - 25%

By Designation: C-level - 40%, D-level - 35%, and Others - 25%

By Region: North America - 35%, Europe - 40%, Asia Pacific - 20, RoW - 5%

The major players in the knowledge graph market include IBM Corporation (US), Oracle (US), Microsoft Corporation (US), AWS (US), Neo4j (US), Progress Software (US), TigerGraph (US), Stardog (US), Franz Inc (US), Openlink Software (US), Graphwise (US), Altair (US), ArangoDB (US), Fluree (US), Memgraph (UK), Datavid (UK), SAP (Germany), GraphBase (Australia), Metaphacts (Germany), Relational AI (US), Wisecube (US), Smabblers (Poland), Onlim (Austria), Graphaware (UK), Diffbot (US), Eccenca (Germany), and ESRI (US). These players have adopted various growth strategies, such as partnerships, agreements and collaborations, new product launches, enhancements, and acquisitions to expand their knowledge graph market footprint.

## Research Coverage

The market study covers the knowledge graph market size across different segments. It aims at estimating the market size and the growth potential across various segments, including by offering (solutions (enterprise knowledge graph platform, graph database engine, knowledge management toolset), services (professional services, managed services), by model type (resource description framework [RDF] triple stores, labeled

property graph [LPG], other model type), by applications (data governance and master data management, data analytics and business intelligence, knowledge and content management, virtual assistants, self-service data and digital asset discovery, product and configuration management, infrastructure and asset management, process optimization and resource management, risk management, compliance, regulatory reporting, market and customer intelligence, sales optimization, other applications), by vertical (banking, financial services, and insurance [BFSI]; retail and eCommerce; healthcare, life sciences, and pharmaceuticals; telecom and technology; government; manufacturing and automotive; media & entertainment, energy, utilities, and infrastructure; travel and hospitality, transportation and logistics; other verticals), and region (North America, Europe, Asia Pacific, the Middle East & Africa, and Latin America). The study includes an in-depth competitive analysis of the leading market players, their company profiles, key observations related to product and business offerings, recent developments, and market strategies.

### **Key Benefits of Buying the Report**

The report will help the market leaders/new entrants with information on the closest approximations of the global knowledge graph market's revenue numbers and subsegments. This report will help stakeholders understand the competitive landscape and gain more insights to position their businesses better and plan suitable go-to-market strategies. Moreover, the report will provide insights for stakeholders to understand the market's pulse and provide them with information on key market drivers, restraints, challenges, and opportunities.

### **The report provides insights into the following pointers:**

Analysis of key drivers (rising demand for AI/generative AI solutions, rapid growth in data volume and complexity, growing demand for semantic search), restraints (data quality and Integration challenges, scalability Issues) opportunities (data unification and rapid proliferation of knowledge graphs, increasing adoption in healthcare and life sciences), and challenges (lack of expertise and awareness, standardization and interoperability) influencing the growth of the knowledge graph market.

**Product Development/Innovation:** Detailed insights on upcoming technologies, research & development activities, and new product & service launches in the knowledge graph market.

**Market Development:** The report provides comprehensive information about lucrative

markets and analyses the knowledge graph market across various regions.

**Market Diversification:** Exhaustive information about new products & services, untapped geographies, recent developments, and investments in the knowledge graph market.

**Competitive Assessment:** In-depth assessment of market shares, growth strategies and service offerings of leading include IBM Corporation (US), Oracle (US), Microsoft Corporation (US), AWS (US), Neo4j (US), Progress Software (US), TigerGraph (US), Stardog (US), Franz Inc (US), Openlink Software (US), Graphwise (US), Altair (US), ArangoDB (US), Fluree (US), Memgraph (UK), Datavid (UK), SAP (Germany), GraphBase (Australia), Metaphacts (Germany), Relational AI (US), Wisecube (US), Smabbler (Poland), Onlim (Austria), Graphaware (UK), Diffbot (US), Eccenca (Germany), and ESRI (US).

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