

Vector Database Market Size, Share & Trends Analysis Report By Component (Solution, Services), By Technology (Recommendation Systems), By Vertical, By Region, And Segment Forecasts, 2024 - 2030

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Abstracts

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Vector Database Market Size & Trends

The global vector database market size was estimated at USD 1.66 billion in 2023 and is expected to grow at a CAGR of 23.7% from 2024 to 2030. The growth is attributed to the increasing demand for spatial data analysis across industries, such as transportation, logistics, urban planning, and environmental monitoring. The growth of Geographic Information Systems (GIS) in agriculture, defense, and real estate, alongside advancements in the Internet of Things (IoT) and smart city projects, fuels this demand. In addition, the rising adoption of location-based services and ongoing technological innovations in vector database capabilities enhance performance and scalability, further propelling market growth.

The rising demand for real-time data analytics in applications, such as disaster management, traffic monitoring, and autonomous vehicles, is boosting the market growth. These databases support real-time data processing, enabling timely decision-making. The shift towards cloud computing and the adoption of cloud-based GIS solutions further fuel market growth, offering scalability, flexibility, and cost-effectiveness. Integrating big data analytics with vector databases enhances predictive analytics and data visualization capabilities, providing comprehensive insights. Enhanced data security and compliance features make vector databases suitable for industries with stringent data protection requirements. In addition, the wide usage of

mobile mapping systems and drones in sectors, such as agriculture, mining, and construction, drives the need for efficient vector data management solutions.

The expansion of AR and VR applications, reliant on complex spatial data, contributes to the demand for vector databases. Investments in smart infrastructure projects, such as smart grids, transportation, and utilities, emphasize the vital role of vector databases in managing spatial data. The healthcare and life sciences sectors increasingly utilize spatial data for epidemiology, public health monitoring, and medical research, necessitating effective vector data management. The development of user-friendly interfaces and customizable solutions broadens the market reach, making vector databases accessible to users with varying technical expertise. Moreover, the need for effective data sharing and collaboration among organizations and agencies drives the adoption of vector databases, facilitating seamless data exchange and integration.

Global Vector Database Market Report Segmentation

This report forecasts revenue growth at global, regional, and country levels and provides an analysis of the latest trends in each of the sub-segments from 2017 to 2030. For this study, Grand View Research has segmented the vector database market report based on component, technology, vertical, and region:

Component Outlook (Revenue, USD Billion, 2017 - 2030)

Solution

Vector Generation

Vector Search

Storage & Retrieval Vectors

Services

Technology Outlook (Revenue, USD Billion, 2017 - 2030)

Natural Language Processing

Computer Vision

Recommendation Systems

Vertical Outlook (Revenue, USD Billion, 2017 - 2030)

BFSI

Retail & E-commerce

Healthcare & Life Sciences

IT & ITeS

Media & Entertainment

Manufacturing

Others

Regional Outlook (Revenue, USD Billion, 2017 - 2030)

North America

U.S.

Canada

Mexico

Europe

UK

Germany

France

Asia Pacific

China

India

Japan

Australia

South Korea

Latin America

Brazil

MEA

UAE

South Africa

KSA

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