

Global Vector Database Market Size study & Forecast, by Offering (Solution, Service) By Technology (Natural Language Processing, Computer Vision, Recommendation Systems) By Vertical (BFSI, Retail & eCommerce, Healthcare & Life Sciences, IT & ITeS, Media & Entertainment, Manufacturing, Other Verticals) and Regional Analysis, 2023-2030

<https://marketpublishers.com/r/GD7B1D3361F3EN.html>

Date: January 2024

Pages: 200

Price: US\$ 4,950.00 (Single User License)

ID: GD7B1D3361F3EN

Abstracts

Global Vector Database Market is valued approximately USD 1.20 billion in 2022 and is anticipated to grow with a healthy growth rate of more than 23.30% over the forecast period 2023-2030. Vector Database is a type of database that is designed to store and manage vector data efficiently. In the context of databases, 'vector' typically refers to a data structure used to represent geometric entities such as points, lines, and polygons in a multi-dimensional space. The Vector Database market is expanding because of factors such as rising demand of electronic health records and increasing number of data center. Vector databases are commonly used in geographic information systems, computer-aided design, and other applications where spatial or geometric data is a central component. As a result, the demand of Vector Database has progressively increased in the international market during the forecast period 2023-2030.

EHR systems often generate diverse data types, including text, images, and numerical values. Vector Databases can facilitate the integration of these diverse data types into a cohesive and structured format. According to the Statista, the global electronic health records (EHR) industry was valued at roughly USD 29 billion in 2020 and the market for EHRs is expected to reach up to USD 47 billion by 2027. Furthermore, Vector Databases can enable interoperability between different healthcare systems and institutions by providing a standardized way to store and retrieve vector data. This is

crucial for exchanging health information seamlessly. Another important factor drives the Vector Database market is increasing number of data center. Multiple data centers across different geographical locations enable better distribution and redundancy of data. Vector Databases can take advantage of this distributed infrastructure to provide low-latency access to data for users and applications across different regions. In addition, as per Statista, in 2023, the United States has the most data centers totaled 5,375, followed by Germany with 522 data centres and 517 in the United Kingdom. Moreover, growing deployment of cloud platforms by enterprises and technological advancement in database management platforms is anticipated to create a lucrative growth opportunity for the market over the forecast period. However, privacy and security of data stored on databases and lack of technical expertise is going to impede overall market growth throughout the forecast period of 2023-2030.

The key regions considered for the Global Vector Database Market study includes Asia Pacific, North America, Europe, Latin America, and Middle East & Africa. North America dominated the market in 2022 with largest market share owing to the increasing presence of key market players and data centers can indeed significantly support the growth of Vector Databases in the region. The presence of key market players, including established technology companies and database providers, can bring credibility and validation to Vector Databases. The region's dominant performance is anticipated to propel the overall demand of Vector Database. Furthermore, Asia Pacific is expected to grow fastest during the forecast period, owing to factors such as adoption of advanced technologies like the Internet of Things (IoT) and Artificial Intelligence (AI) can significantly support the growth of Vector Databases in the region. AI applications, including machine learning models, often deal with high-dimensional vector data. Vector Databases can be used to store and retrieve these models efficiently.

Major market player included in this report are:

Microsoft Corporation

Elastic N.V.

Alibaba Group

MongoDB, Inc

Redis Labs Ltd

SingleStore, Inc

Zilliz Inc

Pinecone Systems, Inc

Google LLC

Amazon Web Services, Inc

Recent Developments in the Market:

In November 2023, DataStax, a leading company in the realm of powering generative AI applications with real-time, scalable data, has unveiled an expanded partnership with Amazon Web Services (AWS). This collaboration encompasses a comprehensive fusion of groundbreaking generative artificial intelligence (AI) advancements, coupled with strategic initiatives in go-to-market strategies, product enhancements, and technology integrations. The synergy between the two entities aims to furnish customers with cutting-edge generative AI technologies, empowering them to enhance productivity and swiftly develop and deploy precise generative AI applications that elevate customer experiences. This partnership is poised to propel the adoption of generative AI offerings from both companies. The SCA is designed to expedite customer innovation by delivering potent technologies essential for large language model (LLM), AI assistant, and real-time generative AI projects. The collaboration extends beyond a mere business arrangement, as DataStax and AWS are set to embark on a global go-to-market initiative, leveraging their collective expertise and resources to co-build, co-market, and co-sell their respective AI products. This united effort aims to provide customers with a robust ecosystem that fosters the seamless integration of generative AI capabilities into their projects, thereby ushering in a new era of advanced and transformative applications.

Global Vector Database Market Report Scope:

Historical Data – 2020 - 2021

Base Year for Estimation – 2022

Forecast period - 2023-2030

Report Coverage - Revenue forecast, Company Ranking, Competitive Landscape, Growth factors, and Trends

Segments Covered - Offering, Technology, Vertical, Region

Regional Scope - North America; Europe; Asia Pacific; Latin America; Middle East & Africa

Customization Scope - Free report customization (equivalent up to 8 analyst's working hours) with purchase. Addition or alteration to country, regional & segment scope*

The objective of the study is to define market sizes of different segments & countries in recent years and to forecast the values to the coming years. The report is designed to incorporate both qualitative and quantitative aspects of the industry within countries involved in the study.

The report also caters detailed information about the crucial aspects such as driving factors & challenges which will define the future growth of the market. Additionally, it also incorporates potential opportunities in micro markets for stakeholders to invest along with the detailed analysis of competitive landscape and product offerings of key players. The detailed segments and sub-segment of the market are explained below:

By Offering

Solution

Service

By Technology

Natural Language Processing

Computer Vision

Recommendation Systems

By Vertical

BFSI

Retail & eCommerce

Healthcare & Life Sciences

IT & ITeS

Media & Entertainment

Manufacturing

Other Verticals

By Region:

North America

U.S.

Canada

Europe

UK

Germany

France

Spain

Italy

ROE

Asia Pacific

China

India

Japan

Australia

South Korea

RoAPAC

Latin America

Brazil

Mexico

Middle East & Africa

Saudi Arabia

South Africa

Rest of Middle East & Africa

Contents

CHAPTER 1. EXECUTIVE SUMMARY

- 1.1. Market Snapshot
- 1.2. Global & Segmental Market Estimates & Forecasts, 2020-2030 (USD Billion)
 - 1.2.1. Vector Database Market, by region, 2020-2030 (USD Billion)
 - 1.2.2. Vector Database Market, by Offering, 2020-2030 (USD Billion)
 - 1.2.3. Vector Database Market, by Technology, 2020-2030 (USD Billion)
 - 1.2.4. Vector Database Market, by Vertical, 2020-2030 (USD Billion)
- 1.3. Key Trends
- 1.4. Estimation Methodology
- 1.5. Research Assumption

CHAPTER 2. GLOBAL VECTOR DATABASE MARKET DEFINITION AND SCOPE

- 2.1. Objective of the Study
- 2.2. Market Definition & Scope
 - 2.2.1. Industry Evolution
 - 2.2.2. Scope of the Study
- 2.3. Years Considered for the Study
- 2.4. Currency Conversion Rates

CHAPTER 3. GLOBAL VECTOR DATABASE MARKET DYNAMICS

- 3.1. Vector Database Market Impact Analysis (2020-2030)
 - 3.1.1. Market Drivers
 - 3.1.1.1. Rising demand of electronic health records
 - 3.1.1.2. Increasing number of data centre
 - 3.1.2. Market Challenges
 - 3.1.2.1. Privacy and security of data stored on databases
 - 3.1.2.2. Lack of technical expertise
 - 3.1.3. Market Opportunities
 - 3.1.3.1. Growing deployment of cloud platforms by enterprises
 - 3.1.3.2. Technological advancement in database management platforms

CHAPTER 4. GLOBAL VECTOR DATABASE MARKET: INDUSTRY ANALYSIS

- 4.1. Porter's 5 Force Model

- 4.1.1. Bargaining Power of Suppliers
- 4.1.2. Bargaining Power of Buyers
- 4.1.3. Threat of New Entrants
- 4.1.4. Threat of Substitutes
- 4.1.5. Competitive Rivalry
- 4.2. Porter's 5 Force Impact Analysis
- 4.3. PEST Analysis
 - 4.3.1. Political
 - 4.3.2. Economic
 - 4.3.3. Social
 - 4.3.4. Technological
 - 4.3.5. Environmental
 - 4.3.6. Legal
- 4.4. Top investment opportunity
- 4.5. Top winning strategies
- 4.6. COVID-19 Impact Analysis
- 4.7. Disruptive Trends
- 4.8. Industry Expert Perspective
- 4.9. Analyst Recommendation & Conclusion

CHAPTER 5. GLOBAL VECTOR DATABASE MARKET, BY OFFERING

- 5.1. Market Snapshot
- 5.2. Global Vector Database Market by Offering, Performance - Potential Analysis
- 5.3. Global Vector Database Market Estimates & Forecasts by Offering 2020-2030 (USD Billion)
- 5.4. Vector Database Market, Sub Segment Analysis
 - 5.4.1. Solution
 - 5.4.2. Service

CHAPTER 6. GLOBAL VECTOR DATABASE MARKET, BY TECHNOLOGY

- 6.1. Market Snapshot
- 6.2. Global Vector Database Market by Technology, Performance - Potential Analysis
- 6.3. Global Vector Database Market Estimates & Forecasts by Technology 2020-2030 (USD Billion)
- 6.4. Vector Database Market, Sub Segment Analysis
 - 6.4.1. Natural Language Processing
 - 6.4.2. Computer Vision

6.4.3. Recommendation Systems

CHAPTER 7. GLOBAL VECTOR DATABASE MARKET, BY VERTICAL

7.1. Market Snapshot

7.2. Global Vector Database Market by Vertical, Performance - Potential Analysis

7.3. Global Vector Database Market Estimates & Forecasts by Vertical 2020-2030 (USD Billion)

7.4. Vector Database Market, Sub Segment Analysis

7.4.1. BFSI

7.4.2. Retail & eCommerce

7.4.3. Healthcare & Life Sciences

7.4.4. IT & ITeS

7.4.5. Media & Entertainment

7.4.6. Manufacturing

7.4.7. Other Verticals

CHAPTER 8. GLOBAL VECTOR DATABASE MARKET, REGIONAL ANALYSIS

8.1. Top Leading Countries

8.2. Top Emerging Countries

8.3. Vector Database Market, Regional Market Snapshot

8.4. North America Vector Database Market

8.4.1. U.S. Vector Database Market

8.4.1.1. Offering breakdown estimates & forecasts, 2020-2030

8.4.1.2. Technology breakdown estimates & forecasts, 2020-2030

8.4.1.3. Vertical breakdown estimates & forecasts, 2020-2030

8.4.2. Canada Vector Database Market

8.5. Europe Vector Database Market Snapshot

8.5.1. U.K. Vector Database Market

8.5.2. Germany Vector Database Market

8.5.3. France Vector Database Market

8.5.4. Spain Vector Database Market

8.5.5. Italy Vector Database Market

8.5.6. Rest of Europe Vector Database Market

8.6. Asia-Pacific Vector Database Market Snapshot

8.6.1. China Vector Database Market

8.6.2. India Vector Database Market

8.6.3. Japan Vector Database Market

- 8.6.4. Australia Vector Database Market
- 8.6.5. South Korea Vector Database Market
- 8.6.6. Rest of Asia Pacific Vector Database Market
- 8.7. Latin America Vector Database Market Snapshot
 - 8.7.1. Brazil Vector Database Market
 - 8.7.2. Mexico Vector Database Market
- 8.8. Middle East & Africa Vector Database Market
 - 8.8.1. Saudi Arabia Vector Database Market
 - 8.8.2. South Africa Vector Database Market
 - 8.8.3. Rest of Middle East & Africa Vector Database Market

CHAPTER 9. COMPETITIVE INTELLIGENCE

- 9.1. Key Company SWOT Analysis
 - 9.1.1. Company
 - 9.1.2. Company
 - 9.1.3. Company
- 9.2. Top Market Strategies
- 9.3. Company Profiles
 - 9.3.1. Microsoft Corporation
 - 9.3.1.1. Key Information
 - 9.3.1.2. Overview
 - 9.3.1.3. Financial (Subject to Data Availability)
 - 9.3.1.4. Product Summary
 - 9.3.1.5. Recent Developments
 - 9.3.2. Elastic N.V.
 - 9.3.3. Alibaba Group
 - 9.3.4. MongoDB, Inc
 - 9.3.5. Redis Labs Ltd
 - 9.3.6. SingleStore, Inc
 - 9.3.7. Zilliz Inc
 - 9.3.8. Pinecone Systems, Inc
 - 9.3.9. Google LLC
 - 9.3.10. Amazon Web Services, Inc

CHAPTER 10. RESEARCH PROCESS

- 10.1. Research Process
 - 10.1.1. Data Mining

- 10.1.2. Analysis
- 10.1.3. Market Estimation
- 10.1.4. Validation
- 10.1.5. Publishing
- 10.2. Research Attributes
- 10.3. Research Assumption

List Of Tables

LIST OF TABLES

TABLE 1. Global Vector Database Market, report scope

TABLE 2. Global Vector Database Market estimates & forecasts by Region 2020-2030 (USD Billion)

TABLE 3. Global Vector Database Market estimates & forecasts by Offering 2020-2030 (USD Billion)

TABLE 4. Global Vector Database Market estimates & forecasts by Technology 2020-2030 (USD Billion)

TABLE 5. Global Vector Database Market estimates & forecasts by Vertical 2020-2030 (USD Billion)

TABLE 6. Global Vector Database Market by segment, estimates & forecasts, 2020-2030 (USD Billion)

TABLE 7. Global Vector Database Market by region, estimates & forecasts, 2020-2030 (USD Billion)

TABLE 8. Global Vector Database Market by segment, estimates & forecasts, 2020-2030 (USD Billion)

TABLE 9. Global Vector Database Market by region, estimates & forecasts, 2020-2030 (USD Billion)

TABLE 10. Global Vector Database Market by segment, estimates & forecasts, 2020-2030 (USD Billion)

TABLE 11. Global Vector Database Market by region, estimates & forecasts, 2020-2030 (USD Billion)

TABLE 12. Global Vector Database Market by segment, estimates & forecasts, 2020-2030 (USD Billion)

TABLE 13. Global Vector Database Market by region, estimates & forecasts, 2020-2030 (USD Billion)

TABLE 14. Global Vector Database Market by segment, estimates & forecasts, 2020-2030 (USD Billion)

TABLE 15. Global Vector Database Market by region, estimates & forecasts, 2020-2030 (USD Billion)

TABLE 16. U.S. Vector Database Market estimates & forecasts, 2020-2030 (USD Billion)

TABLE 17. U.S. Vector Database Market estimates & forecasts by segment 2020-2030 (USD Billion)

TABLE 18. U.S. Vector Database Market estimates & forecasts by segment 2020-2030 (USD Billion)

TABLE 19. Canada Vector Database Market estimates & forecasts, 2020-2030 (USD Billion)

TABLE 20. Canada Vector Database Market estimates & forecasts by segment 2020-2030 (USD Billion)

TABLE 21. Canada Vector Database Market estimates & forecasts by segment 2020-2030 (USD Billion)

TABLE 22. UK Vector Database Market estimates & forecasts, 2020-2030 (USD Billion)

TABLE 23. UK Vector Database Market estimates & forecasts by segment 2020-2030 (USD Billion)

TABLE 24. UK Vector Database Market estimates & forecasts by segment 2020-2030 (USD Billion)

TABLE 25. Germany Vector Database Market estimates & forecasts, 2020-2030 (USD Billion)

TABLE 26. Germany Vector Database Market estimates & forecasts by segment 2020-2030 (USD Billion)

TABLE 27. Germany Vector Database Market estimates & forecasts by segment 2020-2030 (USD Billion)

TABLE 28. France Vector Database Market estimates & forecasts, 2020-2030 (USD Billion)

TABLE 29. France Vector Database Market estimates & forecasts by segment 2020-2030 (USD Billion)

TABLE 30. France Vector Database Market estimates & forecasts by segment 2020-2030 (USD Billion)

TABLE 31. Italy Vector Database Market estimates & forecasts, 2020-2030 (USD Billion)

TABLE 32. Italy Vector Database Market estimates & forecasts by segment 2020-2030 (USD Billion)

TABLE 33. Italy Vector Database Market estimates & forecasts by segment 2020-2030 (USD Billion)

TABLE 34. Spain Vector Database Market estimates & forecasts, 2020-2030 (USD Billion)

TABLE 35. Spain Vector Database Market estimates & forecasts by segment 2020-2030 (USD Billion)

TABLE 36. Spain Vector Database Market estimates & forecasts by segment 2020-2030 (USD Billion)

TABLE 37. RoE Vector Database Market estimates & forecasts, 2020-2030 (USD Billion)

TABLE 38. RoE Vector Database Market estimates & forecasts by segment 2020-2030 (USD Billion)

TABLE 39. RoE Vector Database Market estimates & forecasts by segment 2020-2030 (USD Billion)

TABLE 40. China Vector Database Market estimates & forecasts, 2020-2030 (USD Billion)

TABLE 41. China Vector Database Market estimates & forecasts by segment 2020-2030 (USD Billion)

TABLE 42. China Vector Database Market estimates & forecasts by segment 2020-2030 (USD Billion)

TABLE 43. India Vector Database Market estimates & forecasts, 2020-2030 (USD Billion)

TABLE 44. India Vector Database Market estimates & forecasts by segment 2020-2030 (USD Billion)

TABLE 45. India Vector Database Market estimates & forecasts by segment 2020-2030 (USD Billion)

TABLE 46. Japan Vector Database Market estimates & forecasts, 2020-2030 (USD Billion)

TABLE 47. Japan Vector Database Market estimates & forecasts by segment 2020-2030 (USD Billion)

TABLE 48. Japan Vector Database Market estimates & forecasts by segment 2020-2030 (USD Billion)

TABLE 49. South Korea Vector Database Market estimates & forecasts, 2020-2030 (USD Billion)

TABLE 50. South Korea Vector Database Market estimates & forecasts by segment 2020-2030 (USD Billion)

TABLE 51. South Korea Vector Database Market estimates & forecasts by segment 2020-2030 (USD Billion)

TABLE 52. Australia Vector Database Market estimates & forecasts, 2020-2030 (USD Billion)

TABLE 53. Australia Vector Database Market estimates & forecasts by segment 2020-2030 (USD Billion)

TABLE 54. Australia Vector Database Market estimates & forecasts by segment 2020-2030 (USD Billion)

TABLE 55. RoAPAC Vector Database Market estimates & forecasts, 2020-2030 (USD Billion)

TABLE 56. RoAPAC Vector Database Market estimates & forecasts by segment 2020-2030 (USD Billion)

TABLE 57. RoAPAC Vector Database Market estimates & forecasts by segment 2020-2030 (USD Billion)

TABLE 58. Brazil Vector Database Market estimates & forecasts, 2020-2030 (USD

Billion)

TABLE 59. Brazil Vector Database Market estimates & forecasts by segment
2020-2030 (USD Billion)

TABLE 60. Brazil Vector Database Market estimates & forecasts by segment
2020-2030 (USD Billion)

TABLE 61. Mexico Vector Database Market estimates & forecasts, 2020-2030 (USD
Billion)

TABLE 62. Mexico Vector Database Market estimates & forecasts by segment
2020-2030 (USD Billion)

TABLE 63. Mexico Vector Database Market estimates & forecasts by segment
2020-2030 (USD Billion)

TABLE 64. RoLA Vector Database Market estimates & forecasts, 2020-2030 (USD
Billion)

TABLE 65. RoLA Vector Database Market estimates & forecasts by segment
2020-2030 (USD Billion)

TABLE 66. RoLA Vector Database Market estimates & forecasts by segment
2020-2030 (USD Billion)

TABLE 67. Saudi Arabia Vector Database Market estimates & forecasts, 2020-2030
(USD Billion)

TABLE 68. South Africa Vector Database Market estimates & forecasts by segment
2020-2030 (USD Billion)

TABLE 69. RoMEA Vector Database Market estimates & forecasts by segment
2020-2030 (USD Billion)

TABLE 70. List of secondary sources, used in the study of global Vector Database
Market

TABLE 71. List of primary sources, used in the study of global Vector Database Market

TABLE 72. Years considered for the study

TABLE 73. Exchange rates considered

List of tables and figures and dummy in nature, final lists may vary in the final
deliverable

List Of Figures

LIST OF FIGURES

- FIG 1. Global Vector Database Market, research methodology
 - FIG 2. Global Vector Database Market, Market estimation techniques
 - FIG 3. Global Market size estimates & forecast methods
 - FIG 4. Global Vector Database Market, key trends 2022
 - FIG 5. Global Vector Database Market, growth prospects 2023-2030
 - FIG 6. Global Vector Database Market, porters 5 force model
 - FIG 7. Global Vector Database Market, pest analysis
 - FIG 8. Global Vector Database Market, value chain analysis
 - FIG 9. Global Vector Database Market by segment, 2020 & 2030 (USD Billion)
 - FIG 10. Global Vector Database Market by segment, 2020 & 2030 (USD Billion)
 - FIG 11. Global Vector Database Market by segment, 2020 & 2030 (USD Billion)
 - FIG 12. Global Vector Database Market by segment, 2020 & 2030 (USD Billion)
 - FIG 13. Global Vector Database Market by segment, 2020 & 2030 (USD Billion)
 - FIG 14. Global Vector Database Market, regional snapshot 2020 & 2030
 - FIG 15. North America Vector Database Market 2020 & 2030 (USD Billion)
 - FIG 16. Europe Vector Database Market 2020 & 2030 (USD Billion)
 - FIG 17. Asia pacific Vector Database Market 2020 & 2030 (USD Billion)
 - FIG 18. Latin America Vector Database Market 2020 & 2030 (USD Billion)
 - FIG 19. Middle East & Africa Vector Database Market 2020 & 2030 (USD Billion)
- List of tables and figures and dummy in nature, final lists may vary in the final deliverable

I would like to order

Product name: Global Vector Database Market Size study & Forecast, by Offering (Solution, Service) By Technology (Natural Language Processing, Computer Vision, Recommendation Systems) By Vertical (BFSI, Retail & eCommerce, Healthcare & Life Sciences, IT & ITeS, Media & Entertainment, Manufacturing, Other Verticals) and Regional Analysis, 2023-2030

Product link: <https://marketpublishers.com/r/GD7B1D3361F3EN.html>

Price: US\$ 4,950.00 (Single User License / Electronic Delivery)

If you want to order Corporate License or Hard Copy, please, contact our Customer Service:

info@marketpublishers.com

Payment

To pay by Credit Card (Visa, MasterCard, American Express, PayPal), please, click button on product page <https://marketpublishers.com/r/GD7B1D3361F3EN.html>

To pay by Wire Transfer, please, fill in your contact details in the form below:

First name:

Last name:

Email:

Company:

Address:

City:

Zip code:

Country:

Tel:

Fax:

Your message:

****All fields are required**

Customer signature _____

Please, note that by ordering from marketpublishers.com you are agreeing to our Terms & Conditions at <https://marketpublishers.com/docs/terms.html>

To place an order via fax simply print this form, fill in the information below
and fax the completed form to +44 20 7900 3970