

Global Image Recognition Market Size Study by Technique, Component (Hardware, Software, Service), Deployment Mode, Vertical, and Application (Augmented Reality, Security & Surveillance) and Regional Forecasts 2022-2032

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Abstracts

The Global Image Recognition Market, valued at approximately USD 53.3 billion in 2023, is projected to grow at a robust CAGR of 12.8% over the forecast period 2024-2032. Image recognition technology represents a transformative solution leveraging machine learning and artificial intelligence to identify, analyze, and categorize images with exceptional precision. From facial recognition to autonomous driving and augmented reality applications, this cutting-edge technology is paving the way for advancements across numerous industries. Its integration into smartphones, smart security systems, and healthcare diagnostics exemplifies the growing demand for innovative visual solutions.

One of the pivotal trends driving this market is the fusion of advanced neural networks with real-time data processing capabilities. Such developments are enabling more accurate and faster image recognition systems, catering to applications ranging from personalized marketing to predictive maintenance. Additionally, the incorporation of augmented reality (AR) in retail and gaming is redefining customer engagement, further amplifying the need for sophisticated image recognition technologies.

The Global Image Recognition Market is witnessing significant momentum, underpinned by escalating investments in artificial intelligence and big data analytics. Businesses are increasingly adopting image recognition to streamline operations, enhance customer experiences, and bolster security protocols. For instance, substantial funding initiatives exceeding USD 1 billion have been allocated to AI-driven image recognition projects,

reflecting the technology's critical role in shaping future innovations. However, the market is not without challenges; issues such as data privacy concerns and the high cost of deployment remain potential growth inhibitors.

The market demonstrates a dynamic regional landscape. North America, with its strong technological foundation and the presence of industry leaders, dominated the market in 2023. The region's focus on adopting AI solutions across healthcare, retail, and defense sectors is bolstering its market share. Meanwhile, the Asia-Pacific region is projected to exhibit the fastest growth, driven by rapid digitalization, increased smartphone penetration, and government initiatives supporting AI adoption in emerging economies like China and India.

Major market players included in this report are:

IBM Corporation

Google LLC

Amazon Web Services, Inc.

Microsoft Corporation

Apple Inc.

Qualcomm Technologies, Inc.

NEC Corporation

Intel Corporation

Honeywell International Inc.

NVIDIA Corporation

Facebook, Inc.

Baidu, Inc.

Adobe Inc.

Hitachi, Ltd.

Snap Inc.

The detailed segments and sub-segments of the market are explained below:

By Technique:

Neural Networks

Deep Learning

Others

By Component:

Hardware

Software

Service

By Deployment Mode:

Cloud

On-Premises

By Vertical:

Retail

Automotive

Healthcare

Media & Entertainment

Others

By Application:

Augmented Reality

Security & Surveillance

Content Management

Image Search

Others

By Region:

North America

U.S.

Canada

Europe

UK

Germany

France

Spain

Italy

Rest of Europe

Asia Pacific

China

India

Japan

South Korea

Australia

Rest of Asia Pacific

Latin America

Brazil

Mexico

Middle East & Africa

Saudi Arabia

UAE

South Africa

Rest of Middle East & Africa

Years considered for the study are as follows:

Historical Year – 2022

Base Year – 2023

Forecast Period – 2024 to 2032

Key Takeaways:

Market Estimates & Forecast for 10 years from 2022 to 2032.

Annualized revenues and regional level analysis for each market segment.

Detailed analysis of geographical landscape with country-level analysis of major regions.

Competitive landscape with information on major players in the market.

Analysis of key business strategies and recommendations on future market approaches.

Analysis of competitive structure of the market.

Demand-side and supply-side analysis of the market.

Contents

CHAPTER 1. GLOBAL IMAGE RECOGNITION MARKET EXECUTIVE SUMMARY

1.1. Global Image Recognition Market Size & Forecast (2022-2032)

1.2. Regional Summary

1.3. Segmental Summary

1.3.1. By Technique

Neural Networks

Deep Learning

Others

1.3.2. By Component

Hardware

Software

Service

1.3.3. By Deployment Mode

Cloud

On-Premises

1.3.4. By Vertical

Retail

Automotive

Healthcare

Media & Entertainment

Others

1.3.5. By Application

Augmented Reality

Security & Surveillance

Content Management

Image Search

Others

1.4. Key Trends

1.5. Investment & Funding Highlights

1.6. Analyst Recommendation & Conclusion

CHAPTER 2. GLOBAL IMAGE RECOGNITION MARKET DEFINITION AND RESEARCH ASSUMPTIONS

2.1. Research Objective

2.2. Market Definition

2.3. Research Assumptions

2.3.1. Inclusion & Exclusion

2.3.2. Limitations

2.3.3. Supply Side Analysis

2.3.3.1. Availability

2.3.3.2. Infrastructure

2.3.3.3. Regulatory Environment

2.3.3.4. Market Competition

2.3.3.5. Economic Viability (Consumer's Perspective)

2.3.4. Demand Side Analysis

2.3.4.1. Regulatory Frameworks

2.3.4.2. Technological Advancements

2.3.4.3. Environmental Considerations

2.3.4.4. Consumer Awareness & Acceptance

2.4. Estimation Methodology

2.5. Years Considered for the Study

2.6. Currency Conversion Rates

CHAPTER 3. GLOBAL IMAGE RECOGNITION MARKET DYNAMICS

3.1. Market Drivers

3.1.1. Integration of Advanced Neural Networks with Real-Time Data Processing

3.1.2. Rising Adoption of AI and Machine Learning in Various Industries

3.1.3. Escalating Investments in Big Data Analytics and AI Technologies

3.2. Market Challenges

3.2.1. Data Privacy Concerns

3.2.2. High Cost of Deployment

3.2.3. Integration Complexities with Legacy Systems

3.3. Market Opportunities

3.3.1. Expansion in Augmented Reality (AR) and Personalized Marketing

3.3.2. Adoption in Security & Surveillance Applications

3.3.3. Emergence of Predictive Maintenance and Healthcare Diagnostics

CHAPTER 4. GLOBAL IMAGE RECOGNITION 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
- 4.1.6. Futuristic Approach to Porter's 5 Force Model
- 4.1.7. Porter's 5 Force Impact Analysis
- 4.2. PESTEL Analysis
 - 4.2.1. Political
 - 4.2.2. Economical
 - 4.2.3. Social
 - 4.2.4. Technological
 - 4.2.5. Environmental
 - 4.2.6. Legal
- 4.3. Top Investment Opportunity
- 4.4. Top Winning Strategies
- 4.5. Disruptive Trends
- 4.6. Industry Expert Perspective
- 4.7. Analyst Recommendation & Conclusion

CHAPTER 5. GLOBAL IMAGE RECOGNITION MARKET SIZE & FORECASTS BY TECHNIQUE 2022-2032

- 5.1. Segment Dashboard
- 5.2. Global Image Recognition Market: Technique Revenue Trend Analysis, 2022 & 2032 (USD Million/Billion)
 - 5.2.1. Neural Networks
 - 5.2.2. Deep Learning
 - 5.2.3. Others

CHAPTER 6. GLOBAL IMAGE RECOGNITION MARKET SIZE & FORECASTS BY COMPONENT 2022-2032

- 6.1. Segment Dashboard
- 6.2. Global Image Recognition Market: Component Revenue Trend Analysis, 2022 & 2032 (USD Million/Billion)
 - 6.2.1. Hardware
 - 6.2.2. Software
 - 6.2.3. Service

CHAPTER 7. GLOBAL IMAGE RECOGNITION MARKET SIZE & FORECASTS BY DEPLOYMENT MODE 2022-2032

7.1. Segment Dashboard

7.2. Global Image Recognition Market: Deployment Mode Revenue Trend Analysis, 2022 & 2032 (USD Million/Billion)

7.2.1. Cloud

7.2.2. On-Premises

CHAPTER 8. GLOBAL IMAGE RECOGNITION MARKET SIZE & FORECASTS BY VERTICAL 2022-2032

8.1. Segment Dashboard

8.2. Global Image Recognition Market: Vertical Revenue Trend Analysis, 2022 & 2032 (USD Million/Billion)

8.2.1. Retail

8.2.2. Automotive

8.2.3. Healthcare

8.2.4. Media & Entertainment

8.2.5. Others

CHAPTER 9. GLOBAL IMAGE RECOGNITION MARKET SIZE & FORECASTS BY APPLICATION 2022-2032

9.1. Segment Dashboard

9.2. Global Image Recognition Market: Application Revenue Trend Analysis, 2022 & 2032 (USD Million/Billion)

9.2.1. Augmented Reality

9.2.2. Security & Surveillance

9.2.3. Content Management

9.2.4. Image Search

9.2.5. Others

CHAPTER 10. GLOBAL IMAGE RECOGNITION MARKET SIZE & FORECASTS BY REGION 2022-2032

10.1. North America Image Recognition Market

10.1.1. U.S. Image Recognition Market

10.1.1.1. By Technique Breakdown Size & Forecasts, 2022-2032

10.1.1.2. By Component Breakdown Size & Forecasts, 2022-2032

10.1.2. Canada Image Recognition Market

- 10.2. Europe Image Recognition Market
 - 10.2.1. U.K. Image Recognition Market
 - 10.2.2. Germany Image Recognition Market
 - 10.2.3. France Image Recognition Market
 - 10.2.4. Spain Image Recognition Market
 - 10.2.5. Italy Image Recognition Market
 - 10.2.6. Rest of Europe Image Recognition Market
- 10.3. Asia-Pacific Image Recognition Market
 - 10.3.1. China Image Recognition Market
 - 10.3.2. India Image Recognition Market
 - 10.3.3. Japan Image Recognition Market
 - 10.3.4. South Korea Image Recognition Market
 - 10.3.5. Australia Image Recognition Market
 - 10.3.6. Rest of Asia-Pacific Image Recognition Market
- 10.4. Latin America Image Recognition Market
 - 10.4.1. Brazil Image Recognition Market
 - 10.4.2. Mexico Image Recognition Market
 - 10.4.3. Rest of Latin America Image Recognition Market
- 10.5. Middle East & Africa Image Recognition Market
 - 10.5.1. Saudi Arabia Image Recognition Market
 - 10.5.2. UAE Image Recognition Market
 - 10.5.3. South Africa Image Recognition Market
 - 10.5.4. Rest of Middle East & Africa Image Recognition Market

CHAPTER 11. COMPETITIVE INTELLIGENCE

- 11.1. Key Company SWOT Analysis
 - 11.1.1. IBM Corporation
 - 11.1.2. Google LLC
 - 11.1.3. Amazon Web Services, Inc.
- 11.2. Top Market Strategies
- 11.3. Company Profiles
 - 11.3.1. IBM Corporation
 - 11.3.1.1. Key Information
 - 11.3.1.2. Overview
 - 11.3.1.3. Financial (Subject to Data Availability)
 - 11.3.1.4. Product Summary
 - 11.3.1.5. Market Strategies
 - 11.3.2. Google LLC

- 11.3.3. Amazon Web Services, Inc.
- 11.3.4. Microsoft Corporation
- 11.3.5. Apple Inc.
- 11.3.6. Qualcomm Technologies, Inc.
- 11.3.7. NEC Corporation
- 11.3.8. Intel Corporation
- 11.3.9. Honeywell International Inc.
- 11.3.10. NVIDIA Corporation
- 11.3.11. Facebook, Inc.
- 11.3.12. Baidu, Inc.
- 11.3.13. Adobe Inc.
- 11.3.14. Hitachi, Ltd.
- 11.3.15. Snap Inc.

CHAPTER 12. RESEARCH PROCESS

- 12.1. Research Process
 - 12.1.1. Data Mining
 - 12.1.2. Analysis
 - 12.1.3. Market Estimation
 - 12.1.4. Validation
 - 12.1.5. Publishing
- 12.2. Research Attributes

List Of Tables

LIST OF TABLES

TABLE 1. Global Image Recognition Market, Report Scope

TABLE 2. Global Image Recognition Market Estimates & Forecasts by Region
2022-2032 (USD Million/Billion)

TABLE 3. Global Image Recognition Market Estimates & Forecasts by Technique
2022-2032 (USD Million/Billion)

TABLE 4. Global Image Recognition Market Estimates & Forecasts by Component
2022-2032 (USD Million/Billion)

TABLE 5. Global Image Recognition Market Estimates & Forecasts by Deployment
Mode 2022-2032 (USD Million/Billion)

TABLE 6. Global Image Recognition Market Estimates & Forecasts by Vertical
2022-2032 (USD Million/Billion)

TABLE 7. Global Image Recognition Market Estimates & Forecasts by Application
2022-2032 (USD Million/Billion)

TABLE 8. Global Image Recognition Market by Segment, Estimates & Forecasts,
2022-2032 (USD Million/Billion)

TABLE 9. North America Image Recognition Market Estimates & Forecasts, 2022-2032
(USD Million/Billion)

TABLE 10. U.S. Image Recognition Market Estimates & Forecasts by Segment,
2022-2032 (USD Million/Billion)

TABLE 11. Canada Image Recognition Market Estimates & Forecasts, 2022-2032 (USD
Million/Billion)

TABLE 12. Europe Image Recognition Market Estimates & Forecasts by Country,
2022-2032 (USD Million/Billion)

TABLE 13. Asia-Pacific Image Recognition Market Estimates & Forecasts by Country,
2022-2032 (USD Million/Billion)

TABLE 14. Latin America Image Recognition Market Estimates & Forecasts by Country,
2022-2032 (USD Million/Billion)

TABLE 15. Middle East & Africa Image Recognition Market Estimates & Forecasts by
Country, 2022-2032 (USD Million/Billion)

... (Additional tables as provided in the final report)

List Of Figures

LIST OF FIGURES

- FIG 1. Global Image Recognition Market, Research Methodology
- FIG 2. Global Image Recognition Market, Market Estimation Techniques
- FIG 3. Global Market Size Estimates & Forecast Methods
- FIG 4. Global Image Recognition Market, Key Trends 2023
- FIG 5. Global Image Recognition Market, Growth Prospects 2022-2032
- FIG 6. Global Image Recognition Market, Porter's 5 Force Model
- FIG 7. Global Image Recognition Market, PESTEL Analysis
- FIG 8. Global Image Recognition Market, Value Chain Analysis
- FIG 9. Global Image Recognition Market by Segment, 2022 & 2032 (USD Million/Billion)
- FIG 10. Global Image Recognition Market by Segment, 2022 & 2032 (USD Million/Billion)
- FIG 11. Global Image Recognition Market by Segment, 2022 & 2032 (USD Million/Billion)
- FIG 12. Global Image Recognition Market by Segment, 2022 & 2032 (USD Million/Billion)
- FIG 13. Global Image Recognition Market, Regional Snapshot 2022 & 2032
- FIG 14. North America Image Recognition Market, 2022 & 2032 (USD Million/Billion)
- FIG 15. Europe Image Recognition Market, 2022 & 2032 (USD Million/Billion)
- FIG 16. Asia-Pacific Image Recognition Market, 2022 & 2032 (USD Million/Billion)
- FIG 17. Latin America Image Recognition Market, 2022 & 2032 (USD Million/Billion)
- FIG 18. Middle East & Africa Image Recognition Market, 2022 & 2032 (USD Million/Billion)
- FIG 19. Global Image Recognition Market, Company Market Share Analysis (2023)
- ... (Additional figures as provided in the final report)

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