

Fake Image Detection Market Size, Share & Trends Analysis Report By Offering (Software, Services), By Deployment (On Premises, Cloud), By Technology, By Vertical, By Region, And Segment Forecasts, 2024 - 2030

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Abstracts

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Fake Image Detection Market Growth & Trends

The global fake image detection market size is expected to reach USD 7.32 billion by 2030, according to a new report by Grand View Research, Inc. The market is anticipated to grow at a CAGR of 37.8% from 2024 to 2030. The widespread use of fake images has created a critical need for effective detection solutions. This technology is essential to combat misinformation and ensure the trustworthiness of online content. As fake images continue to threaten public trust, social harmony, and the reputation of online platforms, various stakeholders are taking action. From tech companies to regulatory bodies, there's a growing urgency to implement fake image detection solutions.

This collective effort emphasizes the vital role of this technology in promoting transparency, enabling well-informed decisions, and maintaining the integrity of online communication. The rise of cloud-based services has revolutionized fake image detection. These services utilize powerful algorithms and extensive computing resources from the cloud. Machine learning models, trained on massive datasets, can identify even subtle manipulations within images. This cloud-based approach allows for rapid analysis of large volumes of data, enabling the detection of fake images across various platforms and applications. These services typically offer application

programming interfaces (APIs) and software development kits (SDKs) for smooth integration into existing systems.

This empowers developers to incorporate fake image detection functionality into their applications easily. Several companies are at the forefront of providing cloud-based solutions for fake image detection, including Gradient, Clearview AI, and various others. The adoption of machine learning (ML) and deep learning with convolutional neural networks (CNNs) has become the dominant force in fake image detection. These algorithms excel at identifying manipulated or synthetic images by analyzing subtle inconsistencies. Trained on massive datasets of real and fake images, CNNs learn complex features to distinguish genuine content. Furthermore, advancements in deep learning, like Generative Adversarial Networks (GANs), help researchers stay ahead of evolving image manipulation techniques.

As a result, deep learning and machine learning have become a critical tool for combating fake images, ensuring greater trust and credibility in online visuals across various platforms. Furthermore, government oversight in detecting deepfakes presents both opportunities and challenges for the market. While regulations can boost demand, standardize detection methods, and build user trust, they could also stifle innovation and burden companies with compliance costs. Striking a balance between effective detection and fostering a dynamic market is crucial.

Fake Image Detection Market Report Highlights

The cloud segment led the market and accounted for a share of 53.5% of the global revenue in 2023. Cloud platforms offer access to cutting-edge AI and ML algorithms specifically designed to detect manipulated images. These algorithms are constantly evolving, learning to identify new manipulation techniques as they emerge

With the rise of AI-powered scriptwriting and dialogue generation, the ability to detect manipulation in these areas becomes crucial. Detection tools might be designed to analyze the writing style, identify inconsistencies in character voices, or flag unusual plot elements that could signal a deep fake script

The rise of custom-built AI models caters to specific industry needs. For example, a social media platform might prioritize detecting deep fakes, while a news organization might focus on identifying manipulated photos. This specialization ensures models are highly effective in their targeted domains

Regulatory requirements like KYC mandate robust customer identification procedures. Fake image detection streamlines the KYC process by verifying the authenticity of customer-provided documents, such as passports or driver's licenses. This reduces the risk of fraudulent account openings and money laundering activities

North America dominated the market and accounted for a revenue share of 32.6% in 2023. In North America, there is a growing need for authentication of digital content across various sectors, including media, entertainment, finance, and government. The rise in deep fake incidents and misinformation has led businesses and institutions to prioritize investing in reliable detection tools

Contents

CHAPTER 1. METHODOLOGY AND SCOPE

- 1.1. Market Segmentation and Scope
- 1.2. Research Methodology
 - 1.2.1. Information Procurement
- 1.3. Information or Data Analysis
- 1.4. Methodology
- 1.5. Research Scope and Assumptions
- 1.6. Market Formulation & Validation
- 1.7. Country Based Segment Share Calculation
- 1.8. List of Data Sources

CHAPTER 2. EXECUTIVE SUMMARY

- 2.1. Market Outlook
- 2.2. Segment Outlook
- 2.3. Competitive Insights

CHAPTER 3. FAKE IMAGE DETECTION MARKET VARIABLES, TRENDS, & SCOPE

- 3.1. Market Lineage Outlook
- 3.2. Market Dynamics
 - 3.2.1. Market Driver Analysis
 - 3.2.2. Market Restraint Analysis
 - 3.2.3. Industry Challenge
- 3.3. Fake Image Detection Market Analysis Tools
 - 3.3.1. Industry Analysis - Porter's
 - 3.3.1.1. Bargaining power of the suppliers
 - 3.3.1.2. Bargaining power of the buyers
 - 3.3.1.3. Threats of substitution
 - 3.3.1.4. Threats from new entrants
 - 3.3.1.5. Competitive rivalry
 - 3.3.2. PESTEL Analysis
 - 3.3.2.1. Political landscape
 - 3.3.2.2. Economic and Social landscape
 - 3.3.2.3. Technological landscape

CHAPTER 4. FAKE IMAGE DETECTION MARKET: OFFERINGS ESTIMATES & TREND ANALYSIS

4.1. Segment Dashboard

4.2. Fake Image Detection market: Offering Movement Analysis, 2022 & 2030 (USD Million)

4.3. Software

4.3.1. Software Market Revenue Estimates and Forecasts, 2017 - 2030 (USD Million)

4.3.1.1. Deepfake image detection

4.3.1.2. Photoshopped image detection

4.3.1.3. AI-generated image detection

4.3.1.4. Real-time verification

4.3.1.5. Others

4.4. Services

4.4.1. Services Market Revenue Estimates and Forecasts, 2017 - 2030 (USD Million)

4.4.1.1. Consulting services

4.4.1.2. Integration & deployment

4.4.1.3. Support & maintenance.

CHAPTER 5. FAKE IMAGE DETECTION MARKET: DEPLOYMENT ESTIMATES & TREND ANALYSIS

5.1. Segment Dashboard

5.2. Fake Image Detection market: Deployment Movement Analysis, 2022 & 2030 (USD Million)

5.3. On-premises

5.3.1. On-premises Market Revenue Estimates and Forecasts, 2017 - 2030 (USD Million)

5.4. Cloud

5.4.1. Cloud Market Revenue Estimates and Forecasts, 2017 - 2030 (USD Million)

CHAPTER 6. FAKE IMAGE DETECTION MARKET: TECHNOLOGY ESTIMATES & TREND ANALYSIS

6.1. Segment Dashboard

6.2. Fake Image Detection market: Technology Movement Analysis, 2022 & 2030 (USD Million)

6.3. Image Processing and Analysis

6.3.1. Image Processing and Analysis Market Revenue Estimates and Forecasts, 2017

- 2030 (USD Million)

6.4. Machine Learning and AI

6.4.1. Machine Learning and AI Market Revenue Estimates and Forecasts, 2017 - 2030 (USD Million)

CHAPTER 7. FAKE IMAGE DETECTION MARKET: VERTICAL ESTIMATES & TREND ANALYSIS

7.1. Segment Dashboard

7.2. Fake Image Detection market: Vertical Movement Analysis, 2022 & 2030 (USD Million)

7.3. Government

7.3.1. Government Market Revenue Estimates and Forecasts, 2017 - 2030 (USD Million)

7.4. BFSI

7.4.1. BFSI Market Revenue Estimates and Forecasts, 2017 - 2030 (USD Million)

7.5. Healthcare

7.5.1. Healthcare Market Revenue Estimates and Forecasts, 2017 - 2030 (USD Million)

7.6. IT & Telecom

7.6.1. Telecom Market Revenue Estimates and Forecasts, 2017 - 2030 (USD Million)

7.7. Defense

7.7.1. Real Estate Market Revenue Estimates and Forecasts, 2017 - 2030 (USD Million)

7.8. Media & Entertainment

7.8.1. Media & Entertainment Market Revenue Estimates and Forecasts, 2017 - 2030 (USD Million)

7.9. Retail & E-commerce

7.9.1. Retail & E-commerce Market Revenue Estimates and Forecasts, 2017 - 2030 (USD Million)

7.10. Others

7.10.1. Others Market Revenue Estimates and Forecasts, 2017 - 2030 (USD Million)

CHAPTER 8. FAKE IMAGE DETECTION MARKET: REGIONAL ESTIMATES & TREND ANALYSIS

8.1. Fake Image Detection Market Share, By Region, 2022 & 2030 (USD Million)

8.2. North America

8.2.1. North America Fake Image Detection Market Estimates and Forecasts, 2017 -

2030 (USD Million)

8.2.2. U.S.

8.2.2.1. U.S. Fake Image Detection Market Estimates and Forecasts, 2017 - 2030

(USD Million)

8.2.3. Canada

8.2.3.1. Canada Fake Image Detection Market Estimates and Forecasts, 2017 - 2030

(USD Million)

8.2.4. Mexico

8.2.4.1. Mexico Fake Image Detection Market Estimates and Forecasts, 2017 - 2030

(USD Million)

8.3. Europe

8.3.1. Europe Fake Image Detection Market Estimates and Forecasts, 2017 - 2030

(USD Million)

8.3.2. UK

8.3.2.1. UK Fake Image Detection Market Estimates and Forecasts, 2017 - 2030

(USD Million)

8.3.3. Germany

8.3.3.1. Germany Fake Image Detection Market Estimates and Forecasts, 2017 - 2030 (USD Million)

8.3.4. France

8.3.4.1. France Fake Image Detection Market Estimates and Forecasts, 2017 - 2030 (USD Million)

8.4. Asia Pacific

8.4.1. Asia Pacific Fake Image Detection Market Estimates and Forecasts, 2017 - 2030 (USD Million)

8.4.2. China

8.4.2.1. China Fake Image Detection Market Estimates and Forecasts, 2017 - 2030 (USD Million)

8.4.3. Japan

8.4.3.1. Japan Fake Image Detection Market Estimates and Forecasts, 2017 - 2030 (USD Million)

8.4.4. India

8.4.4.1. India Fake Image Detection Market Estimates and Forecasts, 2017 - 2030 (USD Million)

8.4.5. South Korea

8.4.5.1. South Korea Fake Image Detection Market Estimates and Forecasts, 2017 - 2030 (USD Million)

8.4.6. Australia

8.4.6.1. Australia Fake Image Detection Market Estimates and Forecasts, 2017 -

2030 (USD Million)

8.5. Latin America

8.5.1. Latin America Fake Image Detection Market Estimates and Forecasts, 2017 - 2030 (USD Million)

8.5.2. Brazil

8.5.2.1. Brazil Fake Image Detection Market Estimates and Forecasts, 2017 - 2030 (USD Million)

8.6. Middle East and Africa

8.6.1. Middle East and Africa Fake Image Detection Market Estimates and Forecasts, 2017 - 2030 (USD Million)

8.6.2. UAE

8.6.2.1. UAE Fake Image Detection Market Estimates and Forecasts, 2017 - 2030 (USD Million)

8.6.3. KSA

8.6.3.1. KSA Fake Image Detection Market Estimates and Forecasts, 2017 - 2030 (USD Million)

8.6.4. South Africa

8.6.4.1. South Africa Fake Image Detection Market Estimates and Forecasts, 2017 - 2030 (USD Million)

CHAPTER 9. COMPETITIVE LANDSCAPE

9.1. Company Categorization

9.2. Company Market Positioning

9.3. Participant's Overview

9.4. Financial Performance

9.5. Product Benchmarking

9.6. Company Heat Map Analysis

9.7. Strategy Mapping

9.8. Company Profiles/Listing

9.8.1. Amped

9.8.2. Canon

9.8.3. Deepgram

9.8.4. DeepWare AI

9.8.5. Gradiant.

9.8.6. Intel

9.8.7. Microsoft corporation

9.8.8. Qualcomm

9.8.9. Sensity AI

9.8.10. Sentinel

9.8.11. Sony Corporation

List Of Tables

LIST OF TABLES

Table 1 Global Fake Image Detection market by Offering, 2017 - 2030 (USD Million)

Table 2 Global Fake Image Detection market by Deployment, 2017 - 2030 (USD Million)

Table 3 Global Fake Image Detection market by Technology, 2017 - 2030 (USD Million)

Table 4 Global Fake Image Detection market by Vertical, 2017 - 2030 (USD Million)

Table 5 Global Fake Image Detection market by region, 2017 - 2030 (USD Million)

Table 6 North America Fake Image Detection market by country, 2017 - 2030 (USD Million)

Table 7 Europe Fake Image Detection market by country, 2017 - 2030 (USD Million)

Table 8 Asia Pacific Fake Image Detection market by country, 2017 - 2030 (USD Million)

Table 9 Latin America Fake Image Detection market by country, 2017 - 2030 (USD Million)

Table 10 MEA Fake Image Detection market by country, 2017 - 2030 (USD Million)

Table 11 Key companies launching new products/services.

Table 12 Key companies engaged in mergers & acquisition.

Table 13 Key companies engaged in Research & development.

Table 14 Key Companies engaged in expansion.

List Of Figures

LIST OF FIGURES

- Fig. 1 Information procurement
- Fig. 2 Primary research pattern
- Fig. 3 Market research approaches
- Fig. 4 Value chain-based sizing & forecasting
- Fig. 5 Parent market analysis
- Fig. 6 Fake Image Detection market snapshot
- Fig. 7 Fake Image Detection market segment snapshot
- Fig. 8 Fake Image Detection market competitive landscape snapshot
- Fig. 9 Market research process
- Fig. 10 Market driver relevance analysis (Current & future impact)
- Fig. 11 Market restraint relevance analysis (Current & future impact)
- Fig. 12 Fake Image Detection Market, Offering outlook key takeaways (USD Million)
- Fig. 13 Fake Image Detection Market: Offering movement analysis 2022 & 2030 (USD Million)
- Fig. 14 Software Fake Image Detection market revenue estimates and forecasts, 2017 - 2030 (USD Million)
- Fig. 15 Services Fake Image Detection market revenue estimates and forecasts, 2017 - 2030 (USD Million)
- Fig. 16 Fake Image Detection Market: Deployment outlook key takeaways (USD Million)
- Fig. 17 Fake Image Detection Market: Deployment movement analysis 2022 & 2030 (USD Million)
- Fig. 18 On-premises Fake Image Detection market revenue estimates and forecasts, 2017 - 2030 (USD Million)
- Fig. 19 Cloud Fake Image Detection market revenue estimates and forecasts, 2017 - 2030 (USD Million)
- Fig. 20 Fake Image Detection Market: Technology outlook key takeaways (USD Million)
- Fig. 21 Fake Image Detection Market: Technology movement analysis 2022 & 2030 (USD Million)
- Fig. 22 Image Processing and Analysis Fake Image Detection market revenue estimates and forecasts, 2017 - 2030 (USD Million)
- Fig. 23 Machine Learning and AI Fake Image Detection market revenue estimates and forecasts, 2017 - 2030 (USD Million)
- Fig. 24 Fake Image Detection Market: Vertical outlook key takeaways (USD Million)
- Fig. 25 Fake Image Detection Market: Vertical movement analysis 2022 & 2030 (USD Million)

Million)

Fig. 26 Government Fake Image Detection market revenue estimates and forecasts, 2017 - 2030 (USD Million)

Fig. 27 BFSI Fake Image Detection market revenue estimates and forecasts, 2017 - 2030 (USD Million)

Fig. 28 Healthcare Fake Image Detection market revenue estimates and forecasts, 2017 - 2030 (USD Million)

Fig. 29 Telecom Fake Image Detection market revenue estimates and forecasts, 2017 - 2030 (USD Million)

Fig. 30 Real Estate Fake Image Detection market revenue estimates and forecasts, 2017 - 2030 (USD Million)

Fig. 31 Media & Entertainment Fake Image Detection market revenue estimates and forecasts, 2017 - 2030 (USD Million)

Fig. 32 Others Fake Image Detection market revenue estimates and forecasts, 2017 - 2030 (USD Million)

Fig. 33 Regional marketplace: Key takeaways

Fig. 34 Fake Image Detection Market: Regional outlook, 2022 & 2030, USD Million

Fig. 35 North America Fake Image Detection market estimates and forecasts, 2017 - 2030 (USD Million)

Fig. 36 U.S. Fake Image Detection market estimates and forecasts, 2017 - 2030 (USD Million)

Fig. 37 Canada Fake Image Detection market estimates and forecasts, 2017 - 2030 (USD Million)

Fig. 38 Mexico Fake Image Detection market estimates and forecasts, 2017 - 2030 (USD Million)

Fig. 39 Europe Fake Image Detection market estimates and forecasts, 2017 - 2030 (USD Million)

Fig. 40 UK Fake Image Detection market estimates and forecasts, 2017 - 2030 (USD Million)

Fig. 41 Germany Fake Image Detection market estimates and forecasts, 2017 - 2030 (USD Million)

Fig. 42 France Fake Image Detection market estimates and forecasts, 2017 - 2030 (USD Million)

Fig. 43 Asia Pacific Fake Image Detection market estimates and forecasts, 2017 - 2030 (USD Million)

Fig. 44 Japan Fake Image Detection market estimates and forecasts, 2017 - 2030 (USD Million)

Fig. 45 China Fake Image Detection market estimates and forecasts, 2017 - 2030 (USD Million)

Fig. 46 India Fake Image Detection market estimates and forecasts, 2017 - 2030 (USD Million)

Fig. 47 South Korea Fake Image Detection market estimates and forecasts, 2017 - 2030 (USD Million)

Fig. 48 Australia Fake Image Detection market estimates and forecasts, 2017 - 2030 (USD Million)

Fig. 49 Latin America Fake Image Detection market estimates and forecasts, 2017 - 2030 (USD Million)

Fig. 50 Brazil Fake Image Detection market estimates and forecasts, 2017 - 2030 (USD Million)

Fig. 51 MEA Fake Image Detection market estimates and forecasts, 2017 - 2030 (USD Million)

Fig. 52 UAE Fake Image Detection market estimates and forecasts, 2017 - 2030 (USD Million)

Fig. 53 KSA Fake Image Detection market estimates and forecasts, 2017 - 2030 (USD Million)

Fig. 54 South Africa Fake Image Detection market estimates and forecasts, 2017 - 2030 (USD Million)

Fig. 55 Strategy framework

Fig. 56 Company Categorization

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