

Machine Learning Market Size, Share & Trends Analysis Report By Component (Hardware, Software, Services), By Enterprise Size, By End-use (Advertising & Media, Healthcare, Retail), By Region, And Segment Forecasts, 2023 - 2030

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Abstracts

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Machine Learning Market Growth & Trends

The global machine learning market size is anticipated to reach USD 419.94 billion by 2030, according to a new report by Grand View Research, Inc. The market is expected to expand at a CAGR of 34.8% from 2023 to 2030. The market is experiencing continuous growth, driven by the increasing demand for AI-driven solutions across industries. It is expected to expand further as more organizations recognize the potential of machine learning and invest in its applications. The growing deployment of Edge AI is responsible for market growth. Edge AI reduces the reliance on cloud computing and provides faster response times, improved privacy, and bandwidth efficiency.

Numerous companies are using machine learning (ML) in various industries to boost productivity, streamline processes, and facilitate decision-making. ML is used for personalized product recommendations, demand forecasting, fraud detection, inventory management, and pricing optimization. For instance, Netflix, Inc., a U.S.-based media-streaming and video-rental company, uses machine learning to enhance the customer experience. The company has long been using machine learning algorithms to personalize its viewer recommendations. E-commerce firms like Amazon.com, Inc, a U.S.-based multinational technology company, also uses ML for recommendation to

boost sales.

Developments such as fine-tuned personalization, hyper-targeting, search engine optimization (SEO), no-code environments, self-learning bots, and others are expected to impact the machine-learning landscape significantly. These developments are responsible for the continuous evolution of machine learning applications, driven by the demand for personalized experiences, improved website rankings, efficient marketing strategies, accessibility, and intelligent automation.

For instance, Google LLC has significantly advanced machine learning, specifically in computer vision. Google's research division, Google Research, has developed and deployed machine learning models such as the Inception series and the EfficientDet object detection model. These models have significantly enhanced the accuracy and performance of computer vision tasks, including image classification, object detection, and image segmentation.

Many industries in North America have adopted machine learning to gain insights from massive data and improve business operations. Machine learning is used in various sectors such as finance, healthcare, retail, manufacturing, and technology to perform tasks such as fraud detection, personalized marketing, predictive maintenance, and automated customer service. The growing adoption of cloud-based machine learning services in North America propels the market's growth. The rise of cloud computing platforms, such as Amazon Web Services, Microsoft Azure, and Google Cloud, has made it easier for businesses to access and deploy machine learning tools and infrastructure.

Machine Learning Market Report Highlights

The emergence of connected AI is anticipated to make it possible for ML algorithms to learn based on newly available information continuously. These developments are expected to propel the market expansion in the upcoming years. As these technologies continue to advance and mature, they are expected to have a transformative impact on various industries, shaping the way businesses operate, make decisions, and deliver value to customers

The advertising & media segment dominated the market with a revenue share of 20.0% in 2022. The advertising and media sector accounted for the largest share in 2022 owing to capabilities such as buyer's optimization, data processing, and analysis provided by the technology

Factors such as advancements in computing power, increased data generation, and the need for automated decision-making drive the demand for machine learning solutions across various industries

The Asia Pacific region is expected to grow at the fastest CAGR of 43.5% from 2023 to 2030. The region's large population, diverse industries, and growing investment in technological infrastructure all contribute to market growth

Contents

CHAPTER 1 METHODOLOGY AND SCOPE

- 1.1 Market Segmentation & Scope
- 1.2 Market Definitions
- 1.3 Information Procurement
 - 1.3.1 Information Analysis
 - 1.3.2 Market Formulation & Data Visualization
 - 1.3.3 Data Validation & Publishing
- 1.4 Research Scope And Assumptions
 - 1.4.1 List Of Data Sources

CHAPTER 2 EXECUTIVE SUMMARY

- 2.1 Market Snapshot
- 2.2 Segment Snapshot
- 2.3 Competitive Landscape Snapshot

CHAPTER 3 MACHINE LEARNING MARKET VARIABLES AND TRENDS

- 3.1 Market Lineage Outlook
- 3.2 Penetration & Growth Prospect Mapping
- 3.3 Industry Value Chain Analysis
- 3.4 Market Dynamics
 - 3.4.1 Market Driver Impact Analysis
 - 3.4.1.1 Increasing Applications Of MI Algorithm
 - 3.4.1.2 Rising Adoption Of Advanced Technologies
 - 3.4.2 Market Restraint Impact Analysis
 - 3.4.2.1 Lack Of Skilled Labor
 - 3.4.3 Industry Challenges
 - 3.4.4 Industry Opportunities
- 3.5 Industry Analysis Tools
 - 3.5.1 Porter's Analysis
 - 3.5.2 Macroeconomic Analysis
- 3.6 COVID-19 Impact Analysis

CHAPTER 4 MACHINE LEARNING MARKET: COMPONENT ESTIMATES & TREND ANALYSIS

- 4.1 Component Movement Analysis & Market Share, 2022 & 2030
- 4.2 Machine Learning Market Estimates And Forecast, By Component (USD Billion)
 - 4.2.1 Hardware
 - 4.2.2 Software
 - 4.2.3 Services

CHAPTER 5 MACHINE LEARNING MARKET: ENTERPRISE SIZE ESTIMATES & TREND ANALYSIS

- 5.1 Enterprise Size Movement Analysis & Market Share, 2022 & 2030
- 5.2 Machine Learning Market Estimates And Forecast, By Enterprise Size (USD Billion)
 - 5.2.1 Smes
 - 5.2.2 Large Enterprises

CHAPTER 6 MACHINE LEARNING MARKET: END-USE ESTIMATES & TREND ANALYSIS

- 6.1 End-use Movement Analysis & Market Share, 2022 & 2030
- 6.2 Machine Learning Market Estimates And Forecast, By End-use (USD Billion)
 - 6.2.1 Healthcare
 - 6.2.2 BFSI
 - 6.2.3 Law
 - 6.2.4 Retail
 - 6.2.5 Advertising & Media
 - 6.2.6 Automotive & Transportation
 - 6.2.7 Agriculture
 - 6.2.8 Manufacturing
 - 6.2.9 Others

CHAPTER 7 MACHINE LEARNING: REGIONAL OUTLOOK ESTIMATES & TREND ANALYSIS

- 7.1 Machine Learning Market: Regional Outlook
- 7.2 North America
 - 7.2.1 North America Machine Learning Market Estimates And Forecasts, 2017 - 2030 (USD Billion)
 - 7.2.2 U.S.
 - 7.2.2.1 U.S. Machine Learning Market Estimates And Forecasts, 2017 - 2030 (USD

Billion)

7.2.3 Canada

7.2.3.1 Canada Machine Learning Market Estimates And Forecasts, 2017 - 2030

(USD Billion)

7.3 Europe

7.3.1 Europe Machine Learning Market Estimates And Forecasts, 2017 - 2030 (USD Billion)

7.3.2 Germany

7.3.2.1 Germany. Machine Learning Market Estimates And Forecasts, 2017 - 2030 (USD Billion)

7.3.3 UK

7.3.3.1 UK Machine Learning Market Estimates And Forecasts, 2017 - 2030 (USD Billion)

7.3.4 France

7.3.4.1 France Machine Learning Market Estimates And Forecasts, 2017 - 2030 (USD Billion)

7.4 Asia Pacific

7.4.1 Asia Pacific Machine Learning Market Estimates And Forecasts, 2017 - 2030 (USD Billion)

7.4.2 China

7.4.2.1 China Machine Learning Market Estimates And Forecasts, 2017 - 2030 (USD Billion)

7.4.3 Japan

7.4.3.1 Japan Machine Learning Market Estimates And Forecasts, 2017 - 2030 (USD Billion)

7.4.4 India

7.4.4.1 India Machine Learning Market Estimates And Forecasts, 2017 - 2030 (USD Billion)

7.4.5 South Korea

7.4.5.1 South Korea Machine Learning Market Estimates And Forecasts, 2017 - 2030 (USD Billion)

7.4.6 Australia

7.4.6.1 Australia Machine Learning Market Estimates And Forecasts, 2017 - 2030 (USD Billion)

7.5 Latin America

7.5.1 Latin America Machine Learning Market Estimates And Forecasts, 2017 - 2030 (USD Billion)

7.5.2 Brazil

7.5.2.1 Brazil Machine Learning Market Estimates And Forecasts, 2017 - 2030 (USD

Billion)

7.5.3 Mexico

7.5.3.1 Mexico Machine Learning Market Estimates And Forecasts, 2017 - 2030

(USD Billion)

7.6 MEA

7.6.1 MEA Machine Learning Market Estimates And Forecasts, 2017 - 2030 (USD Billion)

7.6.2 Kingdom Of Saudi Arabia

7.6.2.1 Kingdom Of Saudi Arabia Machine Learning Market Estimates And Forecasts, 2017 - 2030 (USD Billion)

7.6.3 UAE

7.6.3.1 UAE Machine Learning Market Estimates And Forecasts, 2017 - 2030 (USD Billion)

7.6.4 South Africa

7.6.4.1 South Africa Machine Learning Market Estimates And Forecasts, 2017 - 2030 (USD Billion)

CHAPTER 8 MACHINE LEARNING MARKET - COMPETITIVE LANDSCAPE

8.1 Recent Developments & Impact Analysis, By Key Market Participants

8.2 Company Categorization

8.3 Participant's Overview

8.4 Financial Performance

8.5 Product Benchmarking

8.6 Company Market Share Analysis, 2022

8.7 Company Heat Map Analysis

8.8 Strategy Mapping

8.8.1 Expansion

8.8.2 Mergers & Acquisition

8.8.3 Partnerships & Collaborations

8.8.4 New Product Launches

8.9 Strategy Mapping

8.9.1 Amazon Web Services, Inc.

8.9.2 Baidu Inc.

8.9.3 Google Inc.

8.9.4 H2o.ai

8.9.5 Hewlett Packard Enterprise Development Lp

8.9.6 Intel Corporation

8.9.7 International Business Machines Corporation

8.9.8 Microsoft Corporation

8.9.9 Sas Institute Inc.

8.9.10 Sap Se

List Of Tables

LIST OF TABLES

- Table 1 Industry snapshot & key buying criteria, 2017 - 2030
- Table 2 Global Machine Learning Market, 2017 - 2030 (USD Billion)
- Table 3 Global Machine Learning market, by region, 2017 - 2030 (USD Billion)
- Table 4 Global Machine Learning market, by component, 2017 - 2030 (USD Billion)
- Table 5 Global Machine Learning Market, by enterprise size, 2017 - 2030 (USD Billion)
- Table 6 Global Machine Learning market, by end-use, 2017 - 2030 (USD Billion)
- Table 7 Key market driver impact
- Table 8 Key market restraint impact
- Table 9 Hardware Machine Learning market, by region, 2017 - 2030 (USD Billion)
- Table 10 Software Machine Learning market, by region, 2017 - 2030 (USD Billion)
- Table 11 Services Machine Learning market, by region, 2017 - 2030 (USD Billion)
- Table 12 SMEs Machine Learning market, by region, 2017 - 2030 (USD Billion)
- Table 13 Large Enterprises Analytic Machine Learning market, by region, 2017 - 2030 (USD Billion)
- Table 14 Healthcare Machine Learning market, by region, 2017 - 2030 (USD Billion)
- Table 15 BFSI Machine Learning market, by region, 2017 - 2030 (USD Billion)
- Table 16 Law Machine Learning market, by region, 2017 - 2030 (USD Billion)
- Table 17 Retail Machine Learning market, by region, 2017 - 2030 (USD Billion)
- Table 18 Advertising & Media Machine Learning market, by region, 2017 - 2030 (USD Billion)
- Table 19 Automotive & Transportation Machine Learning market, by region, 2017 - 2030 (USD Billion)
- Table 20 Agriculture Machine Learning market, by region, 2017 - 2030 (USD Billion)
- Table 21 Manufacturing Machine Learning market, by region, 2017 - 2030 (USD Billion)
- Table 22 Others Machine Learning market, by region, 2017 - 2030 (USD Billion)
- Table 23 North America Machine Learning market, by component, 2017 - 2030 (USD Billion)
- Table 24 North America Machine Learning market, by enterprise size, 2017 - 2030 (USD Billion)
- Table 25 North America Machine Learning market, by end-use, 2017 - 2030 (USD Billion)
- Table 26 U.S. Machine Learning market, by component, 2017 - 2030 (USD Billion)
- Table 27 U.S. Machine Learning market, by enterprise size, 2017 - 2030 (USD Billion)
- Table 28 U.S. Machine Learning market, by end-use, 2017 - 2030 (USD Billion)
- Table 29 Canada Machine Learning market, by component, 2017 - 2030 (USD Billion)

Table 30 Canada Machine Learning market, by enterprise size, 2017 - 2030 (USD Billion)

Table 31 Canada Machine Learning market, by end-use, 2017 - 2030 (USD Billion)

Table 32 Europe Machine Learning market, by component, 2017 - 2030 (USD Billion)

Table 33 Europe Machine Learning market, by enterprise size, 2017 - 2030 (USD Billion)

Table 34 Europe Machine Learning market, by end-use, 2017 - 2030 (USD Billion)

Table 35 UK Machine Learning market, by component, 2017 - 2030 (USD Billion)

Table 36 UK Machine Learning market, by enterprise size, 2017 - 2030 (USD Billion)

Table 37 UK Machine Learning market, by end-use, 2017 - 2030 (USD Billion)

Table 38 Germany Machine Learning market, by component, 2017 - 2030 (USD Billion)

Table 39 Germany Machine Learning market, by enterprise size, 2017 - 2030 (USD Billion)

Table 40 Germany Machine Learning market, by end-use, 2017 - 2030 (USD Billion)

Table 41 France Machine Learning market, by component, 2017 - 2030 (USD Billion)

Table 42 France Machine Learning market, by enterprise size, 2017 - 2030 (USD Billion)

Table 43 France Machine Learning market, by end-use, 2017 - 2030 (USD Billion)

Table 44 Asia Pacific Machine Learning market, by component, 2017 - 2030 (USD Billion)

Table 45 Asia Pacific Machine Learning market, by enterprise size, 2017 - 2030 (USD Billion)

Table 46 Asia Pacific Machine Learning market, by end-use, 2017 - 2030 (USD Billion)

Table 47 China Machine Learning market, by component, 2017 - 2030 (USD Billion)

Table 48 China Machine Learning market, by enterprise size, 2017 - 2030 (USD Billion)

Table 49 China Machine Learning market, by end-use, 2017 - 2030 (USD Billion)

Table 50 Japan Machine Learning market, by component, 2017 - 2030 (USD Billion)

Table 51 Japan Machine Learning market, by enterprise size, 2017 - 2030 (USD Billion)

Table 52 Japan Machine Learning market, by end-use, 2017 - 2030 (USD Billion)

Table 53 India Machine Learning market, by component, 2017 - 2030 (USD Billion)

Table 54 India Machine Learning market, by enterprise size, 2017 - 2030 (USD Billion)

Table 55 India Machine Learning market, by end-use, 2017 - 2030 (USD Billion)

Table 56 South Korea Machine Learning market, by component, 2017 - 2030 (USD Billion)

Table 57 South Korea Machine Learning market, by enterprise size, 2017 - 2030 (USD Billion)

Table 58 South Korea Machine Learning market, by end-use, 2017 - 2030 (USD Billion)

Table 59 Australia Machine Learning market, by component, 2017 - 2030 (USD Billion)

Table 60 Australia Machine Learning market, by enterprise size, 2017 - 2030 (USD Billion)

Billion)

Table 61 Australia Machine Learning market, by end-use, 2017 - 2030 (USD Billion)

Table 62 Latin America Machine Learning market, by component, 2017 - 2030 (USD Billion)

Table 63 Latin America Machine Learning market, by enterprise size, 2017 - 2030 (USD Billion)

Table 64 Latin America Machine Learning market, by end-use, 2017 - 2030 (USD Billion)

Table 65 Mexico Machine Learning market, by component, 2017 - 2030 (USD Billion)

Table 66 Mexico Machine Learning market, by enterprise size, 2017 - 2030 (USD Billion)

Table 67 Mexico Machine Learning market, by end-use, 2017 - 2030 (USD Billion)

Table 68 Brazil Machine Learning market, by component, 2017 - 2030 (USD Billion)

Table 69 Brazil Machine Learning market, by enterprise size, 2017 - 2030 (USD Billion)

Table 70 Brazil Machine Learning market, by end-use, 2017 - 2030 (USD Billion)

Table 71 MEA Machine Learning market, by component, 2017 - 2030 (USD Billion)

Table 72 MEA Machine Learning market, by enterprise size, 2017 - 2030 (USD Billion)

Table 73 MEA Machine Learning market, by end-use, 2017 - 2030 (USD Billion)

Table 74 Kingdom of Saudi Arabia (KSA) Machine Learning market, by component, 2017 - 2030 (USD Billion)

Table 75 Kingdom of Saudi Arabia (KSA) Machine Learning market, by enterprise size, 2017 - 2030 (USD Billion)

Table 76 Kingdom of Saudi Arabia (KSA) Machine Learning market, by end-use, 2017 - 2030 (USD Billion)

Table 77 UAE Machine Learning market, by component, 2017 - 2030 (USD Billion)

Table 78 UAE Machine Learning market, by enterprise size, 2017 - 2030 (USD Billion)

Table 79 UAE Machine Learning market, by end-use, 2017 - 2030 (USD Billion)

Table 80 South Africa Machine Learning market, by component, 2017 - 2030 (USD Billion)

Table 81 South Africa Machine Learning market, by enterprise size, 2017 - 2030 (USD Billion)

Table 82 South Africa Machine Learning market, by end-use, 2017 - 2030 (USD Billion)

List Of Figures

LIST OF FIGURES

- Fig. 1 Research process
- Fig. 2 Market formulation
- Fig. 3 Machine Learning market segmentation
- Fig. 4 Market Size, 2017 - 2030 (USD Billion)
- Fig. 5 Value chain analysis
- Fig. 6 Market dynamics
- Fig. 7 Penetration and key opportunities mapping, 2030
- Fig. 8 Machine Learning market share by component, 2022 & 2030
- Fig. 9 Machine Learning market share by enterprise size, 2022 & 2030
- Fig. 10 Machine Learning market share by end-use, 2022 & 2030
- Fig. 11 Regional marketplace: Key takeaways
- Fig. 12 North America Machine Learning market - Key takeaways
- Fig. 13 Europe Machine Learning market - Key takeaways
- Fig. 14 Asia Pacific Machine Learning market - Key takeaways
- Fig. 15 Latin America Machine Learning market - Key takeaways
- Fig. 16 Middle East & Africa (MEA) Machine Learning market - Key takeaways

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