

Artificial Intelligence in Manufacturing Market By Component, Technology (ML, NLP, Computer Vision), Application (Predictive Maintenance Quality Management, Supply Chain, Production Planning), Industry Vertical, & Geography - Global Forecast to 2028

<https://marketpublishers.com/r/AD3B84C6E1B9EN.html>

Date: November 2021

Pages: 295

Price: US\$ 4,175.00 (Single User License)

ID: AD3B84C6E1B9EN

Abstracts

Artificial Intelligence in Manufacturing Market By Component, Technology (ML, NLP, Computer Vision), Application (Predictive Maintenance Quality Management, Supply Chain, Production Planning), Industry Vertical, & Region—Global Forecast To 2028

The research report titled “Artificial Intelligence in Manufacturing Market By Component, Technology (ML, NLP, Computer Vision), Application (Predictive Maintenance Quality Management, Supply Chain, Production Planning), Industry Vertical, & Region—Global Forecast To 2028” provides an in-depth analysis of artificial intelligence (AI) in manufacturing market in five major geographies and emphasizes on the current market trends, market sizes, market shares, recent developments, and forecasts till 2027. The artificial intelligence in manufacturing market is expected to reach \$13.96 billion by 2028 and grow at a CAGR of 38.6% during the forecast period of 2021–2028.

The growth of this market is mainly attributed to the advent of Industrial 4.0, the increasing volume of large complex data, and the rising adoption of industrial IoT. Additionally, increasing government initiatives towards digitization, the rising necessity to enhance production outcomes, advance process effectiveness, reduce costs, and downtime in production lines are factors expected to drive the growth of the AI in manufacturing market in the coming years. Also, the growing use of computer vision in manufacturing, the rising adoption of 5G technology, and the increasing demand for

factory automation are prominent technology trends in this market

This study offers a comprehensive analysis of the AI in manufacturing market based on component (hardware [processors, memory solutions, networking solutions], software [AI platforms, AI solutions], services [deployment & integration, support & maintenance]), by technology (machine learning, natural language processing, computer vision, speech & voice recognition, context-aware computing), by application (predictive maintenance & machinery inspection, quality management, supply chain optimization, industrial robot, production planning, material handling, field services, safety planning, cybersecurity, energy management), by industry vertical (automotive, semiconductors & electronics, heavy metals & machine manufacturing, energy & power, aerospace and defense, medical devices, pharmaceuticals, and FMCG), and regions. The study also evaluates industry competitors and analyses the market at the country level.

Based on component, the hardware segment is estimated to account for the largest share of the AI in manufacturing market in 2021. The large market share of this segment is primarily driven by the increasing demand for robust and cost-effective devices, including servers, storage, and networking devices.

However, the software segment is slated to record the fastest CAGR during the forecast period due to the high adoption rate of cloud-based technologies, the rising need for innovative technologies for predicting & preventing errors, and the increasing demand for AI platforms to streamline processes and operations.

Based on technology, the machine learning segment is estimated to account for the largest share of the AI in manufacturing market in 2021. The large market share of this segment is primarily driven by the increasing need for identifying, monitoring, and analyzing the critical system variables during the manufacturing process and the increasing demand for predictive maintenance & machinery inspection.

However, the natural language processing (NLP) segment is slated to record the fastest CAGR during the forecast period due to the growing demand for cloud-based NLP solutions to reduce overall costs, facilitate smart environments and enhance operational scalabilities.

Based on application, the predictive maintenance & machinery inspection segment is estimated to account for the largest share and witness the fastest CAGR of the AI in manufacturing market in 2021. The large market share and the high growth rate of this

segment are attributed to the growing demand to reduce costs for operating heavy equipment, increasing adoption of advanced technologies including IoT devices in manufacturing plants, rising demand for equipment uptime & availability, growing necessity to reduce maintenance planning time, rising need to improve production capacity and increasing need to report manufacturing issues in real-time.

Based on industry vertical, the automotive industry segment is estimated to account for the largest share of the AI in manufacturing market in 2021. The large market share of this segment is primarily driven by the growing adoption of advanced AI automotive solutions for fault detection & isolation, quality management, smart manufacturing, production monitoring, and the increasing need for predictive maintenance & machinery inspection solutions.

However, the medical devices manufacturing segment is slated to record the fastest CAGR during the forecast period due to the outbreak of the COVID-19 pandemic, rising focus on preventive medical equipment maintenance to reduce unplanned downtime, enhance production quality control and improve operational productivity.

Based on geography, the AI in manufacturing market is segmented into North America, Europe, Asia-Pacific, Latin America, and Middle East & Africa. Asia-Pacific is estimated to account for the largest share and witness the highest CAGR of the AI in manufacturing market in 2021. The region's large market share and high growth rate are due to the increasing investments by technology leaders towards digitalization, the strong presence of automobile and electronics & semiconductor companies in the region, and their focus on developing advanced solutions to optimize manufacturing operations and processes in the region.

The key players operating in the AI in manufacturing market are Alphabet, Inc. (U.S.), IBM Corporation (U.S.), Intel Corporation (U.S.), Microsoft Corporation (U.S.), Nvidia Corporation (U.S.), Oracle Corporation (U.S.), Amazon Web Services, Inc. (U.S.), Siemens AG (Germany), General Electric Company (U.S.), SAP SE (Germany), Robert Bosch GmbH (Germany), Cisco Systems, Inc. (U.S.), Rockwell Automation, Inc. (U.S.), Advanced Micro Devices, Inc. (U.S.), and Sight Machine Inc. (U.S.).

Key questions answered in the report:

Which are the high-growth market segments in terms of the component type, technology, application, industry vertical, and countries?

What is the historical market for artificial intelligence in manufacturing across the globe?

What are the market forecasts and estimates from the period of 2021–2028?

What are the major drivers, restraints, opportunities, and trends in the artificial intelligence in manufacturing market?

Who are the major players in the artificial intelligence in manufacturing market, and what are their market shares?

How is the competitive landscape?

What are the recent developments in the artificial intelligence in manufacturing market?

What are the different strategies adopted by the major players operating in the artificial intelligence in manufacturing market?

What are the geographical trends and high-growth countries?

Who are the local emerging players in the artificial intelligence in manufacturing market and how do they compete with the other players?

Scope of the Report:

Artificial Intelligence in Manufacturing Market, by Component

Hardware

Processors

Memory Solutions

Networking Solutions

Software

AI Platforms

AI Solutions

Services

Deployment & Integration

Support & Maintenance

Artificial Intelligence in Manufacturing Market Market, by Technology

Machine Learning

Natural Language Processing

Computer Vision

Speech and Voice Recognition

Context-Aware Computing

Artificial Intelligence in Manufacturing Market Market, by Application

Predictive Maintenance & Machinery Inspection

Quality Management

Supply Chain Optimization

Industrial Robot / Robotics & Factory Automation

Production Planning

Material Handling

Field Services

Safety Planning

Cybersecurity

Energy management

Artificial Intelligence in Manufacturing Market Market, by Industry Vertical

Automotive

Semiconductors & Electronics

Heavy Metals & Machine Manufacturing

Energy & Power

Aerospace & Defense

Medical Devices

Pharmaceuticals

FMCG

Artificial Intelligence in Manufacturing Market Market, by Geography

North America

U.S.

Canada

Europe

Germany

U.K.

France

Italy

Spain

Netherlands

Russia

Ireland

Turkey

Rest of Europe

Asia-Pacific

Japan

China

India

South Korea

Australia & New Zealand

Thailand

Indonesia

Taiwan

Vietnam

Rest of Asia-Pacific

Latin America

Mexico

Brazil

Rest of Latin America

Middle East & Africa

Contents

1. INTRODUCTION

- 1.1. Market Ecosystem
- 1.2. Currency and Limitations
 - 1.2.1. Currency
 - 1.2.2. Limitations
- 1.3. Key Stakeholders

2. RESEARCH METHODOLOGY

- 2.1. Research Approach
- 2.2. Data Collection & Validation
 - 2.2.1. Secondary Research
 - 2.2.2. Primary Research
- 2.3. Market Assessment
 - 2.3.1. Market Size Estimation
 - 2.3.2. Bottom-Up Approach
 - 2.3.3. Top-Down Approach
 - 2.3.4. Growth Forecast
- 2.4. Assumptions for the Study

3. EXECUTIVE SUMMARY

- 3.1. Overview
- 3.2. Market Analysis, by Component
- 3.3. Market Analysis, by Technology
- 3.4. Market Analysis, by Application
- 3.5. Market Analysis, by Industry Vertical
- 3.6. Market Analysis, by Geography
- 3.7. Competitive Analysis

4. THE IMPACT OF COVID-19 ON THE AI IN MANUFACTURING MARKET

- 4.1. Key Innovations
- 4.2. AI Supply Chain in Manufacturing

5. MARKET INSIGHTS

5.1. Introduction

5.2. Market Dynamics

5.2.1. Drivers

5.2.1.1. Advent of Industry 4.0

5.2.1.2. Increasing Volumes of Complex Datasets

5.2.1.3. Rising Adoption of Industrial IoT and Automation

5.2.2. Restraints

5.2.2.1. High Procurement & Operating Costs and A Lack of Infrastructure

5.2.3. Opportunities

5.2.3.1. Growing Scale of Manufacturing Operations in Emerging Economies

5.2.3.2. Rising Acceptance of Modern Manufacturing Techniques

5.2.3.3. Increasing Deployment of Automation Technologies

5.2.4. Challenges

5.2.4.1. Privacy and Data Protection Concerns

5.2.5. Trends

5.2.5.1. Market Trends

5.2.5.1.1. Increasing Demand for Factory Automation

5.2.5.2. Technology Trends

5.2.5.2.1. Rising Adoption of 5G Technology

5.2.5.2.2. Growing Use of Computer Vision in Manufacturing Applications

6. GLOBAL ARTIFICIAL INTELLIGENCE IN MANUFACTURING MARKET, BY COMPONENT

6.1. Introduction

6.2. Hardware

6.2.1. Processors

6.2.2. Memory

6.2.3. Networking

6.3. Services

6.3.1. Deployment & Integration

6.3.2. Support & Maintenance

6.4. Software

6.4.1. AI Platforms

6.4.2. AI Solutions

7. GLOBAL ARTIFICIAL INTELLIGENCE IN MANUFACTURING MARKET, BY TECHNOLOGY

- 7.1. Introduction
- 7.2. Machine Learning (ML)
- 7.3. Natural Language Processing (NLP)
- 7.4. Computer Vision
- 7.5. Speech and Voice Recognition
- 7.6. Context-Aware Computing

8. AI IN MANUFACTURING MARKET, BY APPLICATION

- 8.1. Introduction
- 8.2. Predictive Maintenance & Machinery Inspection
- 8.3. Quality Management
- 8.4. Robotics & Factory Automation
- 8.5. Supply Chain Optimization
- 8.6. Material Handling
- 8.7. Production Planning
- 8.8. Safety Planning
- 8.9. Field Services
- 8.10. Cybersecurity
- 8.11. Energy Management

9. AI IN MANUFACTURING MARKET, BY VERTICAL

- 9.1. Introduction
- 9.2. Automotive
- 9.3. Semiconductors & Electronics
- 9.4. Aerospace and Defense
- 9.5. Heavy Metals & Machine Manufacturing
- 9.6. Medical Devices
- 9.7. Energy & Power
- 9.8. Pharmaceuticals
- 9.9. Fast-Moving Consumer Goods

10. AI IN MANUFACTURING MARKET, BY GEOGRAPHY

- 10.1. Introduction
- 10.2. Asia-Pacific
 - 10.2.1. China

- 10.2.2. Japan
- 10.2.3. South Korea
- 10.2.4. India
- 10.2.5. Australia & New Zealand
- 10.2.6. Thailand
- 10.2.7. Indonesia
- 10.2.8. Taiwan
- 10.2.9. Vietnam
- 10.2.10. Rest of Asia-Pacific (RoAPAC)
- 10.3. North America
 - 10.3.1. U.S.
 - 10.3.2. Canada
- 10.4. Europe
 - 10.4.1. Germany
 - 10.4.2. U.K.
 - 10.4.3. Italy
 - 10.4.4. France
 - 10.4.5. Spain
 - 10.4.6. Netherlands
 - 10.4.7. Russia
 - 10.4.8. Ireland
 - 10.4.9. Turkey
 - 10.4.10. Rest of Europe (RoE)
- 10.5. Latin America
 - 10.5.1. Mexico
 - 10.5.2. Brazil
 - 10.5.3. Rest of Latin America (RoLATAM)
- 10.6. Middle East & Africa

11. COMPETITIVE LANDSCAPE

- 11.1. Introduction
- 11.2. Key Growth Strategies
 - 11.2.1. Market Influencers
 - 11.2.2. Synergy Analysis: Major Deals & Strategic Alliances
- 11.3. Competitive Dashboard
 - 11.3.1. Industry Leaders
 - 11.3.2. Market Differentiators
 - 11.3.3. Vanguard

- 11.3.4. Contemporary Stalwarts
- 11.4. Vendor Market Positioning
- 11.5. Key Ranking

12. COMPANY PROFILES (BUSINESS OVERVIEW, FINANCIAL OVERVIEW, PRODUCT PORTFOLIO, STRATEGIC DEVELOPMENTS)

- 12.1. Alphabet, Inc.
- 12.2. IBM Corporation
- 12.3. Intel Corporation
- 12.4. Microsoft Corporation
- 12.5. NVidia Corporation
- 12.6. Oracle Corporation
- 12.7. Amazon Web Services, Inc. (Amazon.Com, Inc.)
- 12.8. Siemens AG
- 12.9. General Electric Company
- 12.10. SAP SE
- 12.11. Robert Bosch GmbH
- 12.12. Cisco Systems, Inc.
- 12.13. Rockwell Automation, Inc.
- 12.14. Advanced Micro Devices, Inc. (AMD)
- 12.15. Sight Machine, Inc.

13. APPENDIX

- 13.1. Questionnaire
 - 13.1.1. Available Customization

List Of Tables

LIST OF TABLES

Table 1 Global AI in Manufacturing Market Size, by Component, 2019–2028 (USD Million)

Table 2 Global AI Hardware in Manufacturing Market Size, by Type, 2019–2028 (USD Million)

Table 3 AI Hardware in Manufacturing Market Size, by Country/Region, 2019–2028 (USD Million)

Table 4 AI Processors in Manufacturing Market Size, by Country/Region, 2019–2028 (USD Million)

Table 5 AI Memory in Manufacturing Market Size, by Country/Region, 2019–2028 (USD Million)

Table 6 AI Networking in Manufacturing Market Size, by Country/Region, 2019–2028 (USD Million)

Table 7 Global AI Services in Manufacturing Market Size, by Type, 2019–2028 (USD Million)

Table 8 AI Services in Manufacturing Market Size, by Country/Region, 2019–2028 (USD Million)

Table 9 AI Deployment & Integration Services in Manufacturing Market Size, by Country/Region, 2019–2028 (USD Million)

Table 10 AI Support & Maintenance Services in Manufacturing Market Size, by Country/Region, 2019–2028 (USD Million)

Table 11 Global AI Software in Manufacturing Market Size, by Type, 2019–2028 (USD Million)

Table 12 AI Software in Manufacturing Market Size, by Country/Region, 2019–2028 (USD Million)

Table 13 AI Platforms in Manufacturing Market Size, by Country/Region, 2019–2028 (USD Million)

Table 14 AI Solutions in Manufacturing Market Size, by Country/Region, 2019–2028 (USD Million)

Table 15 Global AI in Manufacturing Market Size, by Technology, 2019–2028 (USD Million)

Table 16 AI in Manufacturing Market Size for Machine Learning, by Country/Region, 2019–2028 (USD Million)

Table 17 AI in Manufacturing Market Size for Natural Language Processing, by Country/Region, 2019–2028 (USD Million)

Table 18 AI in Manufacturing Market Size for Computer Vision, by Country/Region,

2019–2028 (USD Million)

Table 19 AI in Manufacturing Market Size for Speech and Voice Recognition, by Country/Region, 2019–2028 (USD Million)

Table 20 AI in Manufacturing Market Size for Context-Aware Computing, by Country/Region, 2019–2028 (USD Million)

Table 21 Global AI in Manufacturing Market Size, by Application, 2019–2028 (USD Million)

Table 22 Global AI in Manufacturing Market Size for Predictive Maintenance & Machinery Inspection, by Country/Region, 2019–2028 (USD Million)

Table 23 Global AI in Manufacturing Market Size for Quality Management, by Country/Region, 2019–2028 (USD Million)

Table 24 Global AI in Manufacturing Market Size for Robotics & Factory Automation, by Country/Region, 2019–2028 (USD Million)

Table 25 Global AI in Manufacturing Market Size for Supply Chain Optimization, by Country/Region, 2019–2028 (USD Million)

Table 26 Global AI in Manufacturing Market Size for Material Handling, by Country/Region, 2019–2028 (USD Million)

Table 27 Global AI in Manufacturing Market Size for Production Planning, by Country/Region, 2019–2028 (USD Million)

Table 28 Global AI in Manufacturing Market Size for Safety Planning, by Country/Region, 2019–2028 (USD Million)

Table 29 Global AI in Manufacturing Market Size for Field Services, by Country/Region, 2019–2028 (USD Million)

Table 30 Global AI in Manufacturing Market Size for Cybersecurity, by Country/Region, 2019–2028 (USD Million)

Table 31 Global AI in Manufacturing Market Size for Energy Management, by Country/Region, 2019–2028 (USD Million)

Table 32 Global AI in Manufacturing Market Size, by Vertical, 2019–2028 (USD Million)

Table 33 Global AI Market Size for Automotive Manufacturing, by Country/Region, 2019-2028 (USD Million)

Table 34 Global AI Market Size for Semiconductors & Electronics Manufacturing Industry, by Country/Region, 2019-2028 (USD Million)

Table 35 Global AI Market Size for Aerospace and Defense Manufacturing, by Country/Region, 2019-2028 (USD Million)

Table 36 Global AI Market Size for Heavy Metals & Machine Manufacturing, by Country/Region, 2019-2028 (USD Million)

Table 37 Global AI Market Size for Medical Devices Manufacturing, by Country/Region, 2019-2028 (USD Million)

Table 38 Global AI Market Size for Energy & Power Manufacturing, by Country/Region,

2019-2028 (USD Million)

Table 39 Global AI Market Size for Pharmaceutical Manufacturing, by Country/Region, 2019-2028 (USD Million)

Table 40 Global AI Market Size for Fast-Moving Consumer Goods Manufacturing, by Country/Region, 2019-2028 (USD Million)

Table 41 Global AI in Manufacturing Market, by Country/Region, 2019–2028 (USD Million)

Table 42 Asia-Pacific: AI Market Size in Manufacturing Industry, by Country/Region, 2019–2028 (USD Million)

Table 43 Asia-Pacific: AI Market Size in Manufacturing Industry, by Component, 2019–2028 (USD Million)

Table 44 Asia-Pacific: AI Hardware Market Size in Manufacturing Industry, by Type, 2019–2028 (USD Million)

Table 45 Asia-Pacific: AI Software Market Size in Manufacturing Industry, by Type, 2019–2028 (USD Million)

Table 46 Asia-Pacific: AI Services Market Size in Manufacturing Industry, by Type, 2019–2028 (USD Million)

Table 47 Asia-Pacific: AI Market Size in Manufacturing Industry, by Technology, 2019–2028 (USD Million)

Table 48 Asia-Pacific: AI Market Size in Manufacturing Industry, by Application, 2019–2028 (USD Million)

Table 49 Asia-Pacific: AI Market Size in Manufacturing Industry, by Industry Vertical, 2019–2028 (USD Million)

Table 50 China: AI Market Size in Manufacturing Industry, by Component, 2019–2028 (USD Million)

Table 51 China: AI Hardware Market Size in Manufacturing Industry, by Type, 2019–2028 (USD Million)

Table 52 China: AI Software Market Size in Manufacturing Industry, by Type, 2019–2028 (USD Million)

Table 53 China: AI Services Market Size in Manufacturing Industry, by Type, 2019–2028 (USD Million)

Table 54 China: AI Market Size in Manufacturing Industry, by Technology, 2019–2028 (USD Million)

Table 55 China: AI Market Size in Manufacturing Industry, by Application, 2019–2028 (USD Million)

Table 56 China: AI Market Size in Manufacturing Industry, by Industry Vertical, 2019–2028 (USD Million)

Table 57 Japan: AI Market Size in Manufacturing Industry, by Component, 2019–2028 (USD Million)

Table 58 Japan: AI Hardware Market Size in Manufacturing Industry, by Type, 2019–2028 (USD Million)

Table 59 Japan: AI Software Market Size in Manufacturing Industry, by Type, 2019–2028 (USD Million)

Table 60 Japan: AI Services Market Size in Manufacturing Industry, by Type, 2019–2028 (USD Million)

Table 61 Japan: AI Market Size in Manufacturing Industry, by Technology, 2019–2028 (USD Million)

Table 62 Japan: AI Market Size in Manufacturing Industry, by Application, 2019–2028 (USD Million)

Table 63 Japan: AI Market Size in Manufacturing Industry, by Industry Vertical, 2019–2028 (USD Million)

Table 64 South Korea: AI Market Size in Manufacturing Industry, by Component, 2019–2028 (USD Million)

Table 65 South Korea: AI Hardware Market Size in Manufacturing Industry, by Type, 2019–2028 (USD Million)

Table 66 South Korea: AI Software Market Size in Manufacturing Industry, by Type, 2019–2028 (USD Million)

Table 67 South Korea: AI Services Market Size in Manufacturing Industry, by Type, 2019–2028 (USD Million)

Table 68 South Korea: AI Market Size in Manufacturing Industry, by Technology, 2019–2028 (USD Million)

Table 69 South Korea: AI Market Size in Manufacturing Industry, by Application, 2019–2028 (USD Million)

Table 70 South Korea: AI Market Size in Manufacturing Industry, by Industry Vertical, 2019–2028 (USD Million)

Table 71 India: AI Market Size in Manufacturing Industry, by Component, 2019–2028 (USD Million)

Table 72 India: AI Hardware Market Size in Manufacturing Industry, by Type, 2019–2028 (USD Million)

Table 73 India: AI Software Market Size in Manufacturing Industry, by Type, 2019–2028 (USD Million)

Table 74 India: AI Services Market Size in Manufacturing Industry, by Type, 2019–2028 (USD Million)

Table 75 India: AI Market Size in Manufacturing Industry, by Technology, 2019–2028 (USD Million)

Table 76 India: AI Market Size in Manufacturing Industry, by Application, 2019–2028 (USD Million)

Table 77 India: AI Market Size in Manufacturing Industry, by Industry Vertical,

2019–2028 (USD Million)

Table 78 Australia & New Zealand: AI Market Size in Manufacturing Industry, by Component, 2019–2028 (USD Million)

Table 79 Australia & New Zealand: AI Hardware Market Size in Manufacturing Industry, by Type, 2019–2028 (USD Million)

Table 80 Australia & New Zealand: AI Software Market Size in Manufacturing Industry, by Type, 2019–2028 (USD Million)

Table 81 Australia & New Zealand: AI Services Market Size in Manufacturing Industry, by Type, 2019–2028 (USD Million)

Table 82 Australia & New Zealand: AI Market Size in Manufacturing Industry, by Technology, 2019–2028 (USD Million)

Table 83 Australia & New Zealand: AI Market Size in Manufacturing Industry, by Application, 2019–2028 (USD Million)

Table 84 Australia & New Zealand: AI Market Size in Manufacturing Industry, by Industry Vertical, 2019–2028 (USD Million)

Table 85 Thailand: AI Market Size in Manufacturing Industry, by Component, 2019–2028 (USD Million)

Table 86 Thailand: AI Hardware Market Size in Manufacturing Industry, by Type, 2019–2028 (USD Million)

Table 87 Thailand: AI Software Market Size in Manufacturing Industry, by Type, 2019–2028 (USD Million)

Table 88 Thailand: AI Services Market Size in Manufacturing Industry, by Type, 2019–2028 (USD Million)

Table 89 Thailand: AI Market Size in Manufacturing Industry, by Technology, 2019–2028 (USD Million)

Table 90 Thailand: AI Market Size in Manufacturing Industry, by Application, 2019–2028 (USD Million)

Table 91 Thailand: AI Market Size in Manufacturing Industry, by Industry Vertical, 2019–2028 (USD Million)

Table 92 Indonesia: AI Market Size in Manufacturing Industry, by Component, 2019–2028 (USD Million)

Table 93 Indonesia: AI Hardware Market Size in Manufacturing Industry, by Type, 2019–2028 (USD Million)

Table 94 Indonesia: AI Software Market Size in Manufacturing Industry, by Type, 2019–2028 (USD Million)

Table 95 Indonesia: AI Services Market Size in Manufacturing Industry, by Type, 2019–2028 (USD Million)

Table 96 Indonesia: AI Market Size in Manufacturing Industry, by Technology, 2019–2028 (USD Million)

Table 97 Indonesia: AI Market Size in Manufacturing Industry, by Application, 2019–2028 (USD Million)

Table 98 Indonesia: AI Market Size in Manufacturing Industry, by Industry Vertical, 2019–2028 (USD Million)

Table 99 Taiwan: AI Market Size in Manufacturing Industry, by Component, 2019–2028 (USD Million)

Table 100 Taiwan: AI Hardware Market Size in Manufacturing Industry, by Type, 2019–2028 (USD Million)

Table 101 Taiwan: AI Software Market Size in Manufacturing Industry, by Type, 2019–2028 (USD Million)

Table 102 Taiwan: AI Services Market Size in Manufacturing Industry, by Type, 2019–2028 (USD Million)

Table 103 Taiwan: AI Market Size in Manufacturing Industry, by Technology, 2019–2028 (USD Million)

Table 104 Taiwan: AI Market Size in Manufacturing Industry, by Application, 2019–2028 (USD Million)

Table 105 Taiwan: AI Market Size in Manufacturing Industry, by Industry Vertical, 2019–2028 (USD Million)

Table 106 Vietnam: AI Market Size in Manufacturing Industry, by Component, 2019–2028 (USD Million)

Table 107 Vietnam: AI Hardware Market Size in Manufacturing Industry, by Type, 2019–2028 (USD Million)

Table 108 Vietnam: AI Software Market Size in Manufacturing Industry, by Type, 2019–2028 (USD Million)

Table 109 Vietnam: AI Services Market Size in Manufacturing Industry, by Type, 2019–2028 (USD Million)

Table 110 Vietnam: AI Market Size in Manufacturing Industry, by Technology, 2019–2028 (USD Million)

Table 111 Vietnam: AI Market Size in Manufacturing Industry, by Application, 2019–2028 (USD Million)

Table 112 Vietnam: AI Market Size in Manufacturing Industry, by Industry Vertical, 2019–2028 (USD Million)

Table 113 Rest of Asia-Pacific: AI Market Size in Manufacturing Industry, by Component, 2019–2028 (USD Million)

Table 114 Rest of Asia-Pacific: AI Hardware Market Size in Manufacturing Industry, by Type, 2019–2028 (USD Million)

Table 115 Rest of Asia-Pacific: AI Software Market Size in Manufacturing Industry, by Type, 2019–2028 (USD Million)

Table 116 Rest of Asia-Pacific: AI Services Market Size in Manufacturing Industry, by

Type, 2019–2028 (USD Million)

Table 117 Rest of Asia-Pacific: AI Market Size in Manufacturing Industry, by Technology, 2019–2028 (USD Million)

Table 118 Rest of Asia-Pacific: AI Market Size in Manufacturing Industry, by Application, 2019–2028 (USD Million)

Table 119 Rest of Asia-Pacific: AI Market Size in Manufacturing Industry, by Industry Vertical, 2019–2028 (USD Million)

Table 120 North America: AI in Manufacturing Market Size, by Country/Region, 2019–2028 (USD Million)

Table 121 North America: AI in Manufacturing Market Size, by Component, 2019–2028 (USD Million)

Table 122 North America: AI in Hardware Manufacturing Market Size, by Type, 2019–2028 (USD Million)

Table 123 North America: AI in Software Manufacturing Market Size, by Type, 2019–2028 (USD Million)

Table 124 North America: AI in Manufacturing Services Market, by Type, 2019–2028 (USD Million)

Table 125 North America: AI in Manufacturing Market Size, by Technology, 2019–2028 (USD Million)

Table 126 North America: AI in Manufacturing Market Size, by Application, 2019–2028 (USD Million)

Table 127 North America: AI in Manufacturing Market, by Industry Vertical, 2019–2028 (USD Million)

Table 128 U.S.: AI in Manufacturing Market Size, by Component, 2019–2028 (USD Million)

Table 129 U.S.: AI in Hardware Manufacturing Market Size, by Type, 2019–2028 (USD Million)

Table 130 U.S.: AI in Software Manufacturing Market Size, by Type, 2019–2028 (USD Million)

Table 131 U.S.: AI in Manufacturing Services Market Size, by Type, 2019–2028 (USD Million)

Table 132 U.S.: AI in Manufacturing Market Size, by Technology, 2019–2028 (USD Million)

Table 133 U.S.: AI in Manufacturing Market Size, by Application, 2019–2028 (USD Million)

Table 134 U.S.: AI in Manufacturing Market Size, by Industry Vertical, 2019–2028 (USD Million)

Table 135 Canada: AI in Manufacturing Market Size, by Component, 2019–2028 (USD Million)

Table 136 Canada: AI in Hardware Manufacturing Market Size, by Type, 2019–2028 (USD Million)

Table 137 Canada: AI in Software Manufacturing Market Size, by Type, 2019–2028 (USD Million)

Table 138 Canada: AI in Manufacturing Services Market, by Type, 2019–2028 (USD Million)

Table 139 Canada: AI in Manufacturing Market Size, by Technology, 2019–2028 (USD Million)

Table 140 Canada: AI in Manufacturing Market Size, by Application, 2019–2028 (USD Million)

Table 141 Canada: AI in Manufacturing Market Size, by Industry Vertical, 2019–2028 (USD Million)

Table 142 Europe: AI in Manufacturing Market Size, by Country/Region, 2019–2028 (USD Million)

Table 143 Europe: AI in Manufacturing Market Size, by Component, 2019–2028 (USD Million)

Table 144 Europe: AI in Hardware Manufacturing Market Size, by Type, 2019–2028 (USD Million)

Table 145 Europe: AI in Software Manufacturing Market Size, by Type, 2019–2028 (USD Million)

Table 146 Europe: AI in Manufacturing Services Market Size, by Type, 2019–2028 (USD Million)

Table 147 Europe: AI in Manufacturing Market Size, by Technology, 2019–2028 (USD Million)

Table 148 Europe: AI in Manufacturing Market Size, by Application, 2019–2028 (USD Million)

Table 149 Europe: AI in Manufacturing Market Size, by Industry Vertical, 2019–2028 (USD Million)

Table 150 Germany: AI in Manufacturing Market Size, by Component, 2019–2028 (USD Million)

Table 151 Germany: AI in Hardware Manufacturing Market Size, by Type, 2019–2028 (USD Million)

Table 152 Germany: AI in Software Manufacturing Market Size, by Type, 2019–2028 (USD Million)

Table 153 Germany: AI in Manufacturing Services Market Size, by Type, 2019–2028 (USD Million)

Table 154 Germany: AI in Manufacturing Market Size, by Technology, 2019–2028 (USD Million)

Table 155 Germany: AI in Manufacturing Market Size, by Application, 2019–2028 (USD

Million)

Table 156 Germany: AI in Manufacturing Market Size, by Industry Vertical, 2019–2028 (USD Million)

Table 157 U.K.: AI in Manufacturing Market Size, by Component, 2019–2028 (USD Million)

Table 158 U.K.: AI in Hardware Manufacturing Market Size, by Type, 2019–2028 (USD Million)

Table 159 U.K.: AI in Software Manufacturing Market Size, by Type, 2019–2028 (USD Million)

Table 160 U.K.: AI in Manufacturing Services Market Size, by Type, 2019–2028 (USD Million)

Table 161 U.K.: AI in Manufacturing Market Size, by Technology, 2019–2028 (USD Million)

Table 162 U.K.: AI in Manufacturing Market Size, by Application, 2019–2028 (USD Million)

Table 163 U.K.: AI in Manufacturing Market Size, by Industry Vertical, 2019–2028 (USD Million)

Table 164 Italy: AI in Manufacturing Market Size, by Component, 2019–2028 (USD Million)

Table 165 Italy: AI in Hardware Manufacturing Market Size, by Type, 2019–2028 (USD Million)

Table 166 Italy: AI in Software Manufacturing Market Size, by Type, 2019–2028 (USD Million)

Table 167 Italy: AI in Manufacturing Services Market Size, by Type, 2019–2028 (USD Million)

Table 168 Italy: AI in Manufacturing Market Size, by Technology, 2019–2028 (USD Million)

Table 169 Italy: AI in Manufacturing Market Size, by Application, 2019–2028 (USD Million)

Table 170 Italy: AI in Manufacturing Market Size, by Industry Vertical, 2019–2028 (USD Million)

Table 171 France: AI in Manufacturing Market Size, by Component, 2019–2028 (USD Million)

Table 172 France: AI in Hardware Manufacturing Market Size, by Type, 2019–2028 (USD Million)

Table 173 France: AI in Software Manufacturing Market Size, by Type, 2019–2028 (USD Million)

Table 174 France: AI in Manufacturing Services Market Size, by Type, 2019–2028 (USD Million)

Table 175 France: AI in Manufacturing Market Size, by Technology, 2019–2028 (USD Million)

Table 176 France: AI in Manufacturing Market Size, by Application, 2019–2028 (USD Million)

Table 177 France: AI in Manufacturing Market Size, by Industry Vertical, 2019–2028 (USD Million)

Table 178 Spain: AI in Manufacturing Market Size, by Component, 2019–2028 (USD Million)

Table 179 Spain: AI in Hardware Manufacturing Market Size, by Type, 2019–2028 (USD Million)

Table 180 Spain: AI in Software Manufacturing Market Size, by Type, 2019–2028 (USD Million)

Table 181 Spain: AI in Manufacturing Services Market Size, by Type, 2019–2028 (USD Million)

Table 182 Spain: AI in Manufacturing Market Size, by Technology, 2019–2028 (USD Million)

Table 183 Spain: AI in Manufacturing Market Size, by Application, 2019–2028 (USD Million)

Table 184 Spain: AI in Manufacturing Market Size, by Industry Vertical, 2019–2028 (USD Million)

Table 185 Netherlands: AI in Manufacturing Market Size, by Component, 2019–2028 (USD Million)

Table 186 Netherlands: AI in Hardware Manufacturing Market Size, by Type, 2019–2028 (USD Million)

Table 187 Netherlands: AI in Software Manufacturing Market Size, by Type, 2019–2028 (USD Million)

Table 188 Netherlands: AI in Manufacturing Services Market Size, by Type, 2019–2028 (USD Million)

Table 189 Netherlands: AI in Manufacturing Market Size, by Technology, 2019–2028 (USD Million)

Table 190 Netherlands: AI in Manufacturing Market Size, by Application, 2019–2028 (USD Million)

Table 191 Netherlands: AI in Manufacturing Market Size, by Industry Vertical, 2019–2028 (USD Million)

Table 192 Russia: AI in Manufacturing Market Size, by Component, 2019–2028 (USD Million)

Table 193 Russia: AI in Hardware Manufacturing Market Size, by Type, 2019–2028 (USD Million)

Table 194 Russia: AI in Software Manufacturing Market Size, by Type, 2019–2028

(USD Million)

Table 195 Russia: AI in Manufacturing Services Market Size, by Type, 2019–2028 (USD Million)

Table 196 Russia: AI in Manufacturing Market Size, by Technology, 2019–2028 (USD Million)

Table 197 Russia: AI in Manufacturing Market Size, by Application, 2019–2028 (USD Million)

Table 198 Russia: AI in Manufacturing Market Size, by Industry Vertical, 2019–2028 (USD Million)

Table 199 Ireland: AI in Manufacturing Market Size, by Component, 2019–2028 (USD Million)

Table 200 Ireland: AI in Hardware Manufacturing Market Size, by Type, 2019–2028 (USD Million)

Table 201 Ireland: AI in Software Manufacturing Market Size, by Type, 2019–2028 (USD Million)

Table 202 Ireland: AI in Manufacturing Services Market, by Type, 2019–2028 (USD Million)

Table 203 Ireland: AI in Manufacturing Market Size, by Technology, 2019–2028 (USD Million)

Table 204 Ireland: AI in Manufacturing Market Size, by Application, 2019–2028 (USD Million)

Table 205 Ireland: AI in Manufacturing Market Size, by Industry Vertical, 2019–2028 (USD Million)

Table 206 Turkey: AI in Manufacturing Market Size, by Component, 2019–2028 (USD Million)

Table 207 Turkey: AI in Hardware Manufacturing Market Size, by Type, 2019–2028 (USD Million)

Table 208 Turkey: AI in Software Manufacturing Market Size, by Type, 2019–2028 (USD Million)

Table 209 Turkey: AI in Manufacturing Services Market Size, by Type, 2019–2028 (USD Million)

Table 210 Turkey: AI in Manufacturing Market Size, by Technology, 2019–2028 (USD Million)

Table 211 Turkey: AI in Manufacturing Market Size, by Application, 2019–2028 (USD Million)

Table 212 Turkey: AI in Manufacturing Market Size, by Industry Vertical, 2019–2028 (USD Million)

Table 213 Rest of Europe: AI in Manufacturing Market Size, by Component, 2019–2028 (USD Million)

Table 214 Rest of Europe: AI in Hardware Manufacturing Market, by Type, 2019–2028 (USD Million)

Table 215 Rest of Europe: AI in Software Manufacturing Market Size, by Type, 2019–2028 (USD Million)

Table 216 Rest of Europe: AI in Manufacturing Services Market Size, by Type, 2019–2028 (USD Million)

Table 217 Rest of Europe: AI in Manufacturing Market Size, by Technology, 2019–2028 (USD Million)

Table 218 Rest of Europe: AI in Manufacturing Market Size, by Application, 2019–2028 (USD Million)

Table 219 Rest of Europe: AI in Manufacturing Market Size, by Industry Vertical, 2019–2028 (USD Million)

Table 220 Latin America: AI Market Size in Manufacturing Industry, by Country/Region, 2019–2028 (USD Million)

Table 221 Latin America: AI Market Size in Manufacturing Industry, by Component, 2019–2028 (USD Million)

Table 222 Latin America: AI Hardware Market Size in Manufacturing Industry, by Type, 2019–2028 (USD Million)

Table 223 Latin America: AI Software Market Size in Manufacturing Industry, by Type, 2019–2028 (USD Million)

Table 224 Latin America: AI Services Market Size in Manufacturing Industry, by Type, 2019–2028 (USD Million)

Table 225 Latin America: AI Market Size in Manufacturing Industry, by Technology, 2019–2028 (USD Million)

Table 226 Latin America: AI Market Size in Manufacturing Industry, by Application, 2019–2028 (USD Million)

Table 227 Latin America: AI Market Size in Manufacturing Industry, by Industry Vertical, 2019–2028 (USD Million)

Table 228 Mexico: AI Market Size in Manufacturing Industry, by Component, 2019–2028 (USD Million)

Table 229 Mexico: AI Hardware Market Size in Manufacturing Industry, by Type, 2019–2028 (USD Million)

Table 230 Mexico: AI Software Market Size in Manufacturing Industry, by Type, 2019–2028 (USD Million)

Table 231 Mexico: AI Services Market Size in Manufacturing Industry, by Type, 2019–2028 (USD Million)

Table 232 Mexico: AI Market Size in Manufacturing Industry, by Technology, 2019–2028 (USD Million)

Table 233 Mexico: AI Market Size in Manufacturing Industry, by Application, 2019–2028

(USD Million)

Table 234 Mexico: AI Market Size in Manufacturing Industry, by Industry Vertical, 2019–2028 (USD Million)

Table 235 Brazil: AI Market Size in Manufacturing Industry, by Component, 2019–2028 (USD Million)

Table 236 Brazil: AI Hardware Market Size in Manufacturing Industry, by Type, 2019–2028 (USD Million)

Table 237 Brazil: AI Software Market Size in Manufacturing Industry, by Type, 2019–2028 (USD Million)

Table 238 Brazil: AI Services Market Size in Manufacturing Industry, by Type, 2019–2028 (USD Million)

Table 239 Brazil: AI Market Size in Manufacturing Industry, by Technology, 2019–2028 (USD Million)

Table 240 Brazil: AI Market Size in Manufacturing Industry, by Application, 2019–2028 (USD Million)

Table 241 Brazil: AI Market Size in Manufacturing Industry, by Industry Vertical, 2019–2028 (USD Million)

Table 242 Rest of Latin America: AI Market Size in Manufacturing Industry, by Component, 2019–2028 (USD Million)

Table 243 Rest of Latin America: AI Hardware Market Size in Manufacturing Industry, by Type, 2019–2028 (USD Million)

Table 244 Rest of Latin America: AI Software Market Size in Manufacturing Industry, by Type, 2019–2028 (USD Million)

Table 245 Rest of Latin America: AI Services Market Size in Manufacturing Industry, by Type, 2019–2028 (USD Million)

Table 246 Rest of Latin America: AI Market Size in Manufacturing Industry, by Technology, 2019–2028 (USD Million)

Table 247 Rest of Latin America: AI Market Size in Manufacturing Industry, by Application, 2019–2028 (USD Million)

Table 248 Rest of Latin America: AI Market Size in Manufacturing Industry, by Industry Vertical, 2019–2028 (USD Million)

Table 249 Middle East & Africa: AI Market Size in Manufacturing Industry, by Component, 2019–2028 (USD Million)

Table 250 Middle East & Africa: AI Hardware Market Size in Manufacturing Industry, by Type, 2019–2028 (USD Million)

Table 251 Middle East & Africa: AI Software Market Size in Manufacturing Industry, by Type, 2019–2028 (USD Million)

Table 252 Middle East & Africa: AI Services Market Size in Manufacturing Industry, by Type, 2019–2028 (USD Million)

Table 253 Middle East & Africa: AI Market Size in Manufacturing Industry, by Technology, 2019–2028 (USD Million)

Table 254 Middle East & Africa: AI Market Size in Manufacturing Industry, by Application, 2019–2028 (USD Million)

Table 255 Middle East & Africa: AI Market Size in Manufacturing Industry, by Industry Vertical, 2019–2028 (USD Million)

Table 256 Recent Developments, by Company (2018–2021)

Table 257 Market Influencers in the Global AI in Manufacturing Market (2018–2021)

Table 258 Key Synergic Developments in the AI in Manufacturing Market

Table 259 Recent Developments Towards Enhancing Product Strengths by Major Players in the AI in Manufacturing Market

Table 260 Some of the Recent Key Geographic Expansions by Major Players in the AI in Manufacturing Market

List Of Figures

LIST OF FIGURES

Figure 1 Research Process

Figure 2 Key Secondary Sources

Figure 3 Primary Research Techniques

Figure 4 Key Executives Interviewed

Figure 5 Breakdown of Primary Interviews (Supply-Side & Demand-Side)

Figure 6 Market Sizing and Growth Forecast Approach

Figure 7 Key Insights

Figure 8 Hardware Segment to Dominate the Global AI in Manufacturing Market (2021–2028)

Figure 9 Machine Learning to Dominate the Global AI in Manufacturing Market (2021–2028)

Figure 10 Predictive Maintenance & Machinery Inspection Segment Leads the Global AI in Manufacturing Market (2021–2028)

Figure 11 Automotive Segment Emerged Dominant in the Global AI in Manufacturing Market (2021–2028)

Figure 12 Artificial Intelligence in Manufacturing Market, by Region (2021–2028)

Figure 13 Key Innovators in the AI in Manufacturing Industry

Figure 14 Market Dynamics

Figure 15 Global AI in Manufacturing Market Size, by Component, 2021 Vs. 2028 (USD Million)

Figure 16 Global AI in Manufacturing Market Size, by Technology, 2021 Vs. 2028 (USD Million)

Figure 17 Global AI in Manufacturing Market Size, by Application, 2021–2028 (USD Million)

Figure 18 Advantages of Predictive Maintenance in Manufacturing Industries

Figure 19 Field Services in Manufacturing Industry Applications

Figure 20 Cybersecurity Applications in Manufacturing Industries

Figure 21 Global AI in Manufacturing Market Size, by Vertical, 2021–2028 (USD Million)

Figure 22 Advantages of AI in Automotive Manufacturing Operations

Figure 23 Advantage of AI in Heavy Metals & Machinery Manufacturing Operations

Figure 24 Global AI in Manufacturing Market Size, by Geography, 2021-2028 (USD Million)

Figure 25 Asia-Pacific: Artificial Intelligence Market in Manufacturing Industry Snapshot

Figure 26 North America: AI in Manufacturing Market Snapshot

Figure 27 Europe: AI in Manufacturing Market Snapshot

- Figure 28 Latin America: AI Market in Manufacturing Industry Snapshot
- Figure 29 Key Growth Strategies Adopted by Leading Players (2018–2021)
- Figure 30 Competitive Dashboard: Artificial Intelligence in Manufacturing Market
- Figure 31 Vendors' Market Positioning Analysis (2018–2021)
- Figure 32 Alphabet, Inc.: Financial Overview (2020)
- Figure 33 IBM Corporation: Financial Overview (2020)
- Figure 34 Intel Corporation: Financial Overview (2020)
- Figure 35 Microsoft Corporation: Financial Overview (2020)
- Figure 36 NVidia Corporation: Financial Overview (2020)
- Figure 37 Oracle Corporation: Financial Overview (2020)
- Figure 38 Amazon Web Services, Inc.: Financial Overview (2020)
- Figure 39 Siemens AG: Financial Overview (2020)
- Figure 40 General Electric Company: Financial Overview (2020)
- Figure 41 SAP SE: Financial Overview (2020)
- Figure 42 Robert Bosch GmbH: Financial Overview (2020)
- Figure 43 Cisco Systems, Inc.: Financial Overview (2020)
- Figure 44 Rockwell Automation, Inc.: Financial Overview (2020)
- Figure 45 Advanced Micro Devices, Inc.: Financial Overview (2020)

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