

# AI in Manufacturing Market Size, Share, Forecast, & Trends Analysis by Component, Technology (ML, NLP, Computer Vision), Application (Predictive Maintenance & Machinery Inspection, Cybersecurity, Supply Chain Optimization), End-use Industry, and Geography - Global Forecast to 2031

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## Abstracts

The research report titled, 'AI in Manufacturing Market by Component, Technology (ML, NLP, Computer Vision), Application (Predictive Maintenance & Machinery Inspection, Cybersecurity, Supply Chain Optimization), End-use Industry, and Geography —Global Forecast to 2031.' provides an in-depth analysis of the AI in manufacturing market in five major geographies and emphasizes on the current market trends, size, and share, recent developments, and forecasts till 2031. The AI in manufacturing market is projected to reach \$84.5 billion by 2031, at a CAGR of 32.6% from 2024 to 2031.

Artificial Intelligence (AI) in manufacturing refers to the application of AI technologies and techniques to improve various aspects of manufacturing processes. These applications can range from optimizing production schedules to predictive maintenance and quality control. With the advent of Industry 4.0, the manufacturing industry has made significant progress in regard to the adoption of advanced technologies for manufacturing operations and processes. Manufacturing industries are implementing AI-powered intelligent solutions & services to enhance the automation and operational efficiency of organizations. Thus, there is considerable growth in the demand for the adoption of AI in the manufacturing industry for intelligent manufacturing processes that offer decentralized decision-making, optimize logistics & supply chains, enhance production outcomes, advance process effectiveness, and minimize operational costs, enabling an intelligent manufacturing environment.

The growth of the AI in manufacturing market is driven by the rising adoption of Industry 4.0 and smart manufacturing, the growing need for predictive maintenance and quality control, and the increasing demand for automation and operational efficiency. However, a shortage of skilled workforce restrains the growth of this market. Furthermore, the rising number of manufacturing operations in emerging economies and the increasing adoption of AI in supply chain management and logistics are expected to generate growth opportunities for the stakeholders in this market. However, data security and privacy concerns are a major challenge impacting the growth of the AI in manufacturing market. Additionally, the prominent trend in this market is the rising adoption of computer vision & robotics in manufacturing.

The AI in manufacturing market is segmented based on component (hardware [processors, networking, memory], software [AI platforms, AI solutions], and services [deployment & integration, support & maintenance]), technology (machine learning (ML), natural language processing (NLP), context-aware computing, computer vision, speech and voice recognition), application (field services, quality management, cybersecurity, robotics & factory automation, predictive maintenance & machinery inspection, material handling, production planning, safety planning, energy management, supply chain optimization), end-use industry (semiconductor & electronics, energy & power, pharmaceuticals, medical devices, automotive, heavy metals & machine manufacturing, fast-moving consumer goods, aerospace and defense, other industries). The study also evaluates industry competitors and analyses the regional and country-level markets.

Based on component, the AI in manufacturing market is segmented into hardware, software, and services segment. The services segment is projected to record the highest CAGR during the forecast period. The growing adoption of smart manufacturing services, growing AI expertise, and growing skilled labor shortage are the major factors promoting the growth of this segment.

Based on technology, the AI in manufacturing market is segmented into machine learning (ML), natural language processing (NLP), context-aware computing, computer vision, speech and voice recognition, and machine reasoning. The natural language processing segment is projected to register the highest CAGR during the forecast period. The growth of this segment is attributed to the increasing demand for NLP technology for analyzing machinery data to predict and prevent failures, automate inspection report analysis, ensure adherence to safety protocols through real-time analysis, enable personalization based on customer feedback analysis, and optimize manufacturing processes by evaluating production data.

Based on application, the AI in manufacturing market is segmented into field services, quality management, cybersecurity, robotics & factory automation, predictive maintenance & machinery inspection, material handling, production planning, safety planning, energy management, and supply chain optimization. The predictive maintenance & machinery inspection segment is projected to register the highest CAGR during the forecast period. The growth of this segment is attributed to the increasing demand for self-monitoring, the increasing need to reduce costs related to operating heavy equipment and maintenance costs and downtime, and the increasing demand for real-time plant monitoring in manufacturing industries.

Based on end-use industry, the AI in manufacturing market is segmented into semiconductor & electronics, energy & power, pharmaceuticals, medical devices, automotive, heavy metals & machine manufacturing, fast-moving consumer goods, aerospace and defense, and other end-use industries. The medical devices segment is expected to register the highest CAGR during the forecast period. The growth of this segment is attributed to the increasing demand for advanced healthcare technologies, regulatory compliance requirements, and the need for improved efficiency and quality in medical device manufacturing processes.

Based on geography, the AI in manufacturing market is segmented into North America, Europe, Asia-Pacific, Latin America, and the Middle East & Africa. The Asia Pacific is expected to register the highest CAGR during the forecast period. The growth of this segment is attributed to the rising demand for automation, the increasing adoption of industrial robots, the advent of Industry 4.0, increasing investments by technology leaders, the growing adoption of cloud-based manufacturing solutions, and the presence of prominent market players in the region.

The key players profiled in the AI in manufacturing market study include Google LLC (A Subsidiary of Alphabet Inc.) (U.S.), International Business Machines Corporation (U.S.), Intel Corporation (U.S.), Microsoft Corporation (U.S.), NVIDIA Corporation (U.S.), Oracle Corporation (U.S.), Cisco Systems, Inc. (U.S.), Rockwell Automation, Inc. (U.S.), Amazon Web Services, Inc. (A Subsidiary of Amazon.com, Inc.) (U.S.), Siemens AG (Germany), General Electric Company (U.S.), SAP SE (Germany), Advanced Micro Devices, Inc. (U.S.), Robert Bosch GmbH (Germany), and Sight Machine Inc. (U.S.).

Key Questions Answered in the Report:

Which are the high-growth market segments in terms of component, technology,

application, end-use industry, and geography?

What is the historical market size for AI in manufacturing market across the globe?

What are the market forecasts and estimates for the period 2024–2031?

What are the major drivers, restraints, opportunities, and challenges in the AI in manufacturing market?

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

What is the competitive landscape like for AI in manufacturing market?

What are the recent developments in the AI in manufacturing market?

What are the different strategies adopted by the major players in the market?

What are the key geographic trends, and which are the high-growth countries?

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

Scope of the report:

AI in Manufacturing Market Assessment —by Component

Hardware

Processors

Networking

Memory

Software

AI Platforms

AI Solutions

Services

Deployment & Integration

Support & Maintenance

### AI in Manufacturing Market—by Technology

Machine Learning (ML)

Natural Language Processing (NLP)

Context-Aware Computing

Computer Vision

Speech and Voice Recognition

### AI in Manufacturing Market—by Application

Field Services

Quality Management

Cybersecurity

Robotics & Factory Automation

Predictive Maintenance & Machinery Inspection

Material Handling

Production Planning

Safety Planning

Energy management

Supply Chain Optimization

## AI in Manufacturing Market—by End-use Industry

Semiconductor & Electronics

Energy & Power

Pharmaceuticals

Medical Devices

Automotive

Heavy Metals & Machine Manufacturing

Fast-moving Consumer Goods

Aerospace and Defense

Other Industries

## AI in Manufacturing 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

UAE

Israel

Rest of Middle East & Africa



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