

Artificial Intelligence In Supply Chain Market Outlook 2025-2034: Market Share, and Growth Analysis By Offering (Hardware, Software, Services), By Technology (Machine Learning, Natural Language Processing, Context-Aware Computing, Computer Vision), By Application, By End-User

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Abstracts

The Artificial Intelligence In Supply Chain Market is valued at USD 8.5 billion in 2025 and is projected to grow at a CAGR of 40% to reach USD 175.4 billion by 2034. The Artificial Intelligence in Supply Chain market involves the use of AI to optimize various aspects of supply chain management, including demand forecasting, inventory management, and logistics. AI algorithms analyze data from various sources, such as sales data, market trends, and supplier information, to provide real-time insights and support decision-making. This helps organizations improve supply chain efficiency, reduce costs, and enhance customer satisfaction. AI is transforming the way supply chains are managed and operated.

AI-powered systems can automate demand forecasting, inventory optimization, and logistics planning. Machine learning algorithms can learn from historical data and adapt to changing market conditions. AI also enables the development of predictive maintenance systems, which can prevent equipment failures and reduce downtime. Additionally, AI can help analyze supplier performance and identify potential risks. The market is driven by the increasing need for supply chain resilience and the growing complexity of global supply chains.

The market is driven by the increasing need for supply chain resilience and the growing complexity of global supply chains. Organizations are investing heavily in AI to improve

supply chain efficiency and reduce operational risks. AI offers the potential to enhance supply chain visibility, reduce lead times, and improve customer service. The development of advanced AI algorithms and the availability of supply chain data are further fueling market growth.

Key Insights Artificial Intelligence In Supply Chain Market

AI-powered demand forecasting and inventory management.

Predictive maintenance for supply chain equipment.

AI-driven logistics and transportation optimization.

Real-time supply chain visibility.

Use of AI in supplier risk management.

Increasing need for supply chain resilience.

Growing complexity of global supply chains.

Demand for improved supply chain efficiency.

Potential for reducing costs and enhancing customer satisfaction.

Advancements in AI and data analytics technologies.

Ensuring accuracy and reliability of AI algorithms in dynamic environments.

Data privacy and security concerns.

Integration of AI tools with existing supply chain systems.

Addressing supply chain disruptions and uncertainties.

Lack of standardized datasets.

Artificial Intelligence In Supply Chain Market Segmentation

By Offering

Hardware

Software

Services

By Technology

Machine Learning

Natural Language Processing

Context-Aware Computing

Computer Vision

By Application

Fleet Management

Supply Chain Planning

Warehouse Management

Virtual Assistant

Risk Management

Freight Brokerage

Other Applications

By End-User

Automotive

Aerospace

Manufacturing

Retail

Healthcare

Consumer-Packaged Goods

Food And Beverages

Key Companies Analysed

Amazon.com Inc.

Google LLC

Samsung Electronics Co Ltd.

Microsoft Corporation

DHL Group

FedEx Corporation

General Electric Company

Intel Corporation

The International Business Machines Corp

Oracle Corporation

SAP SE

Micron Technology Inc.

NVIDIA Corporation

C.H. Robinson Worldwide Inc.

Havi Logistics AS

Cainiao Smart Logistics Network Limited

Zebra Technologies Corporation

Flexport Inc.

Xilinx Inc.

Echo Global Logistics Inc.

Epicor Software Corporation

Blue Yonder Inc.

Symbotic LLC

E2open LLC.

C3.AI Inc

Relex Solutions Private Limited

DataRobot Inc

Splice Machine Inc.

Covariant Inc

Llamasoft Inc.

Artificial Intelligence In Supply Chain Market Analytics

The report employs rigorous tools, including Porter's Five Forces, value chain mapping, and scenario-based modeling, to assess supply–demand dynamics. Cross-sector influences from parent, derived, and substitute markets are evaluated to identify risks and opportunities. Trade and pricing analytics provide an up-to-date view of international flows, including leading exporters, importers, and regional price trends.

Macroeconomic indicators, policy frameworks such as carbon pricing and energy security strategies, and evolving consumer behavior are considered in forecasting scenarios. Recent deal flows, partnerships, and technology innovations are incorporated to assess their impact on future market performance.

Artificial Intelligence In Supply Chain Market Competitive Intelligence

The competitive landscape is mapped through OG Analysis' proprietary frameworks, profiling leading companies with details on business models, product portfolios, financial performance, and strategic initiatives. Key developments such as mergers & acquisitions, technology collaborations, investment inflows, and regional expansions are analyzed for their competitive impact. The report also identifies emerging players and innovative startups contributing to market disruption.

Regional insights highlight the most promising investment destinations, regulatory landscapes, and evolving partnerships across energy and industrial corridors.

Countries Covered

North America — Artificial Intelligence In Supply Chain market data and outlook to 2034

United States

Canada

Mexico

Europe — Artificial Intelligence In Supply Chain market data and outlook to 2034

Germany

United Kingdom

France

Italy

Spain

BeNeLux

Russia

Sweden

Asia-Pacific — Artificial Intelligence In Supply Chain market data and outlook to 2034

China

Japan

India

South Korea

Australia

Indonesia

Malaysia

Vietnam

Middle East and Africa — Artificial Intelligence In Supply Chain market data and outlook to 2034

Saudi Arabia

South Africa

Iran

UAE

Egypt

South and Central America — Artificial Intelligence In Supply Chain market data and outlook to 2034

Brazil

Argentina

Chile

Peru

** We can include data and analysis of additional countries on demand.*

Research Methodology

This study combines primary inputs from industry experts across the Artificial Intelligence In Supply Chain value chain with secondary data from associations, government publications, trade databases, and company disclosures. Proprietary modeling techniques, including data triangulation, statistical correlation, and scenario planning, are applied to deliver reliable market sizing and forecasting.

Key Questions Addressed

What is the current and forecast market size of the Artificial Intelligence In Supply Chain industry at global, regional, and country levels?

Which types, applications, and technologies present the highest growth potential?

How are supply chains adapting to geopolitical and economic shocks?

What role do policy frameworks, trade flows, and sustainability targets play in shaping demand?

Who are the leading players, and how are their strategies evolving in the face of global uncertainty?

Which regional “hotspots” and customer segments will outpace the market, and what go-to-market and partnership models best support entry and expansion?

Where are the most investable opportunities—across technology roadmaps, sustainability-linked innovation, and M&A—and what is the best segment to invest over the next 3–5 years?

Your Key Takeaways from the Artificial Intelligence In Supply Chain Market Report

Global Artificial Intelligence In Supply Chain market size and growth projections (CAGR), 2024-2034

Impact of Russia-Ukraine, Israel-Palestine, and Hamas conflicts on Artificial Intelligence In Supply Chain trade, costs, and supply chains

Artificial Intelligence In Supply Chain market size, share, and outlook across 5 regions and 27 countries, 2023-2034

Artificial Intelligence In Supply Chain market size, CAGR, and market share of key products, applications, and end-user verticals, 2023-2034

Short- and long-term Artificial Intelligence In Supply Chain market trends, drivers, restraints, and opportunities

Porter’s Five Forces analysis, technological developments, and Artificial Intelligence In Supply Chain supply chain analysis

Artificial Intelligence In Supply Chain trade analysis, Artificial Intelligence In Supply Chain market price analysis, and Artificial Intelligence In Supply Chain supply/demand dynamics

Profiles of 5 leading companies—overview, key strategies, financials, and products

Latest Artificial Intelligence In Supply Chain market news and developments

Additional Support

With the purchase of this report, you will receive

An updated PDF report and an MS Excel data workbook containing all market tables and figures for easy analysis.

7-day post-sale analyst support for clarifications and in-scope supplementary data, ensuring the deliverable aligns precisely with your requirements.

Complimentary report update to incorporate the latest available data and the impact of recent market developments.

** The updated report will be delivered within 3 working days*

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