

Ai In Logistics And Supply Chain Management Market Outlook 2025-2034: Market Share, and Growth Analysis By Offering (Solution, Services), By Type (Artificial Intelligence (AI), Machine Learning, Robotics Process Automation (RPA), Natural Language Processing (NLP)), By Deployment, By Application, By End User

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Abstracts

The Ai In Logistics And Supply Chain Management Market is valued at USD 6.8 billion in 2025 and is projected to grow at a CAGR of 32% to reach USD 82.7 billion by 2034. The AI in logistics and supply chain management market is experiencing rapid growth, driven by the need for increased efficiency, resilience, and transparency. This market involves the application of artificial intelligence technologies, such as machine learning, predictive analytics, and robotics, to optimize various aspects of logistics and supply chain operations. AI-powered solutions enable businesses to automate processes, improve demand forecasting, and enhance inventory management. By analyzing data from various sources, AI can provide real-time insights into supply chain performance and identify potential disruptions. The scope of this market extends across various industries, including manufacturing, retail, and transportation. The focus is on developing intelligent systems that can enhance visibility, reduce costs, and improve customer satisfaction. The adoption of AI is facilitating a shift from traditional, reactive supply chain management to proactive, data-driven operations.

2024 has been a year of significant advancement for AI in logistics and supply chain management, marked by the increased adoption of predictive analytics for demand forecasting and inventory optimization. We've seen a surge in the use of AI for automating warehouse operations, including robotic picking and packing. The

integration of AI with blockchain technology has also gained momentum, enhancing supply chain transparency and traceability. Furthermore, there's been a noticeable increase in the use of AI for optimizing transportation routes and delivery schedules, reducing costs and improving efficiency. The development of AI-powered platforms for supply chain risk management has also accelerated, enabling businesses to mitigate potential disruptions. The use of generative AI for supply chain simulation has allowed for increased testing of potential disruptions. The incorporation of AI into control towers has improved overall visibility.

The AI in logistics and supply chain management market is expected to experience continued growth and innovation. We anticipate further advancements in autonomous logistics, with the development of self-driving trucks and drones. The integration of AI with IoT sensors will enable real-time monitoring of goods and assets throughout the supply chain. We also expect to see increased use of AI for automating complex tasks, such as supplier selection and contract negotiation. The rise of personalized logistics will drive the need for AI-powered solutions that can tailor delivery services to individual customer preferences. Furthermore, the focus will shift towards developing more sustainable supply chain practices, with AI being used to optimize resource usage and reduce environmental impact. The use of AI for optimizing reverse logistics will improve efficiency. We will also see increased focus on AI for enhancing cybersecurity within supply chains.

Key Insights Ai In Logistics And Supply Chain Management Market

Predictive Analytics for Demand Forecasting: AI accurately predicts demand to optimize inventory and reduce stockouts.

Warehouse Automation: AI-powered robots automate picking, packing, and other warehouse tasks.

Blockchain Integration: AI enhances supply chain transparency and traceability through blockchain.

Autonomous Logistics: AI drives the development of self-driving trucks and drones for efficient delivery.

Supply Chain Risk Management: AI identifies and mitigates potential disruptions in the supply chain.

Increasing E-commerce Demand: The growth of online sales necessitates efficient logistics and supply chain management.

Need for Supply Chain Resilience: Businesses seek to mitigate disruptions and ensure continuity.

Advancements in AI Technology: Improvements in machine learning and predictive analytics enhance capabilities.

Globalization of Supply Chains: Managing complex global supply chains requires AI-powered solutions.

Integration of Legacy Systems: Integrating AI solutions with existing legacy systems can be complex and costly.

Ai In Logistics And Supply Chain Management Market Segmentation

By Offering

Solution

Services

By Type

Artificial Intelligence (AI)

Machine Learning

Robotics Process Automation (RPA)

Natural Language Processing (NLP)

By Deployment

Cloud-Based

On-Premise

By Application

Warehouse Management

Transportation Management

Order Fulfillment

Demand Forecasting

Inventory Optimization

Supply Chain Planning

Other Applications

By End User

Automotive

Aerospace

Manufacturing

Retail

Healthcare

Other End Users

Key Companies Analysed

Google LLC

Microsoft Corporation

Amazon Web Services Inc.

General Electric Company

International Business Machines Corporation

Oracle Corporation

SAP SE

Zebra Technologies Corp.

Databricks Inc.

Manhattan Associates Inc.

o9 Solutions Inc.

Locus

Trax Technologies Ltd.

SenseTime

Project44

FourKites Inc.

Turvo Inc.

Everstream Analytics

GreyOrange Pte. Ltd.

Elementum Ltd.

Ambi Robotics

ClearMetal Inc.

Aurrigo International Plc

Nexocode

Ai In Logistics And Supply Chain Management 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.

Ai In Logistics And Supply Chain Management 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 — Ai In Logistics And Supply Chain Management market data and outlook to 2034

United States

Canada

Mexico

Europe — Ai In Logistics And Supply Chain Management market data and outlook to 2034

Germany

United Kingdom

France

Italy

Spain

BeNeLux

Russia

Sweden

Asia-Pacific — Ai In Logistics And Supply Chain Management market data and outlook to 2034

China

Japan

India

South Korea

Australia

Indonesia

Malaysia

Vietnam

Middle East and Africa — Ai In Logistics And Supply Chain Management market data and outlook to 2034

Saudi Arabia

South Africa

Iran

UAE

Egypt

South and Central America — Ai In Logistics And Supply Chain Management 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 Ai In Logistics And Supply Chain Management 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 Ai In Logistics And Supply Chain Management 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 Ai In Logistics And Supply Chain Management Market Report

Global Ai In Logistics And Supply Chain Management market size and growth projections (CAGR), 2024-2034

Impact of Russia-Ukraine, Israel-Palestine, and Hamas conflicts on Ai In Logistics And Supply Chain Management trade, costs, and supply chains

Ai In Logistics And Supply Chain Management market size, share, and outlook across 5 regions and 27 countries, 2023-2034

Ai In Logistics And Supply Chain Management market size, CAGR, and market share of key products, applications, and end-user verticals, 2023-2034

Short- and long-term Ai In Logistics And Supply Chain Management market trends, drivers, restraints, and opportunities

Porter's Five Forces analysis, technological developments, and Ai In Logistics And Supply Chain Management supply chain analysis

Ai In Logistics And Supply Chain Management trade analysis, Ai In Logistics And Supply Chain Management market price analysis, and Ai In Logistics And Supply Chain Management supply/demand dynamics

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

Latest Ai In Logistics And Supply Chain Management 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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