

Global Maritime Artificial Intelligence Market Size study, by Component (Hardware, Software), by Technology, by Application, by Deployment, by End Use and Regional Forecasts 2022-2032

https://marketpublishers.com/r/GA514013B7C2EN.html

Date: May 2025

Pages: 285

Price: US\$ 3,218.00 (Single User License)

ID: GA514013B7C2EN

Abstracts

The Global Maritime Artificial Intelligence Market is valued at approximately USD 3.07 billion in 2023 and is anticipated to grow with an extraordinary CAGR of 40.60% over the forecast period 2024–2032. As maritime operations shift toward digital optimization, artificial intelligence (AI) emerges not just as a complementary technology but as a strategic imperative across global shipping and naval ecosystems. From autonomous vessel navigation and predictive maintenance to intelligent cargo routing and advanced surveillance, AI is rapidly becoming the rudder that steers maritime transformation. The increasing emphasis on smart port development, cybersecurity in naval networks, and real-time analytics for voyage optimization has created fertile ground for AI-driven technologies to thrive. Driven by demand for enhanced situational awareness and operational efficiency, the maritime industry is swiftly adopting AI solutions to navigate complexities while reducing costs, emissions, and risks.

One of the most compelling narratives driving this exponential growth is the symbiotic integration of AI with emerging technologies such as the Internet of Things (IoT), edge computing, and big data analytics. These innovations collectively power intelligent shipboard systems capable of autonomous decision-making, environmental compliance, and fuel optimization. Port authorities and fleet operators are leveraging machine learning algorithms to streamline docking procedures, reduce turnaround time, and manage congested routes efficiently. Moreover, AI is disrupting maritime security, with surveillance drones, sensor fusion, and threat detection systems redefining the parameters of defense preparedness and border control at sea. Investments in this direction are bolstered by rising geopolitical tensions and the need for intelligent



maritime domain awareness (IMDA).

Despite its transformative promise, the sector is not devoid of challenges. Integration complexities, high initial capital expenditure, and a fragmented regulatory environment pose significant hurdles to wide-scale deployment. Moreover, the maritime workforce's hesitance to embrace automation—rooted in concerns over job displacement and data security—could impede the transition. However, these roadblocks are being gradually mitigated by policy incentives, international collaborations, and scalable SaaS-based AI platforms designed specifically for maritime logistics and defense applications.

A burgeoning number of private and public partnerships are catalyzing innovation pipelines. Leading naval forces and commercial shipping giants are aligning with tech firms to co-develop maritime AI platforms capable of combatting piracy, mapping ocean floors, and predicting system failures. Initiatives like Europe's Horizon AI program, South Korea's "Smart Ship Project," and the U.S. Navy's AI Task Force underscore a global consensus on elevating AI capabilities across the seas. Meanwhile, digital twin technology is increasingly being deployed in simulation-based training for crews and in vessel lifecycle management, offering a paradigm shift in asset longevity and mission reliability.

From a regional standpoint, North America currently commands a dominant position in the global maritime AI market, underpinned by strong defense budgets, well-established maritime infrastructure, and technological maturity. Europe follows closely, buoyed by digital port transformation projects across Germany, the Netherlands, and Scandinavia. However, Asia Pacific is forecasted to register the fastest growth during the analysis period, owing to the maritime ambitions of China, Japan, and India. These nations are making aggressive strides in autonomous shipping, AI-powered maritime surveillance, and smart fleet management, thereby setting the stage for robust regional expansion. Latin America and the Middle East & Africa are also gradually catching up, fueled by port modernization and increased naval surveillance.

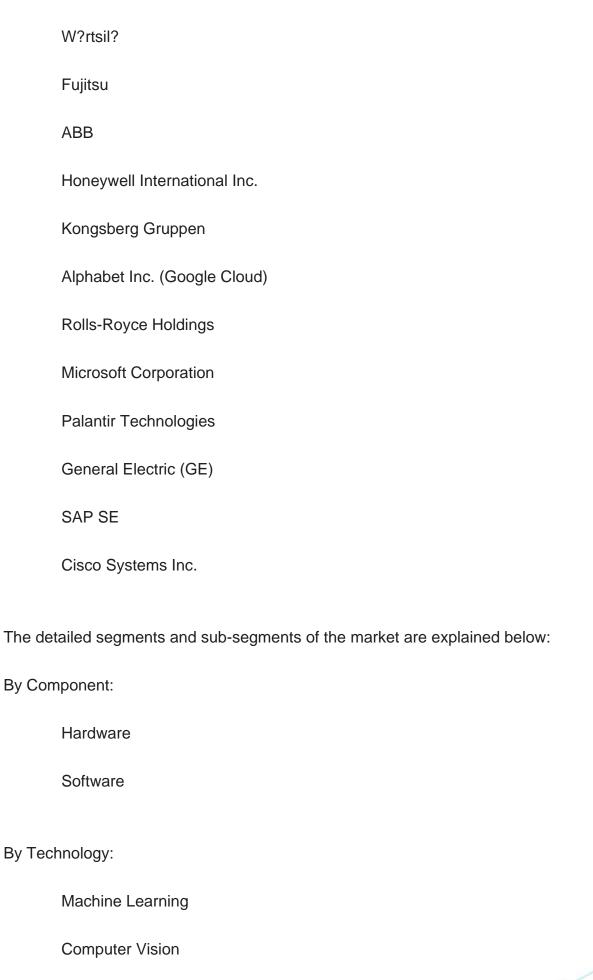
Major market player included in this report are:

IBM Corporation

BAE Systems

Orca Al



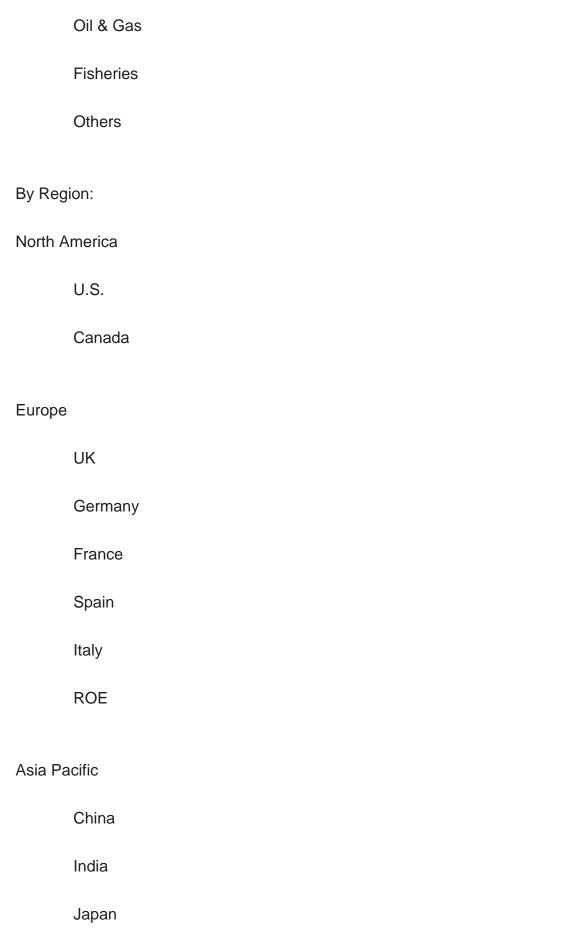




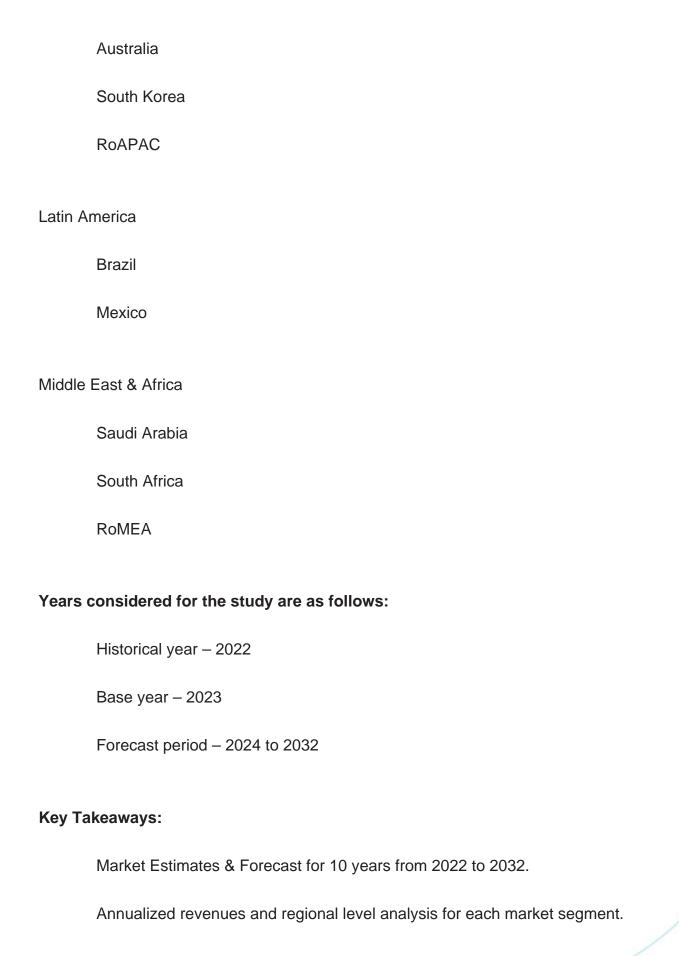
Natural Language Processing

Predictive Analytics
Others
By Application:
Fleet Management
Autonomous Shipping
Maritime Surveillance & Security
Smart Port Operations
Navigation & Route Optimization
Predictive Maintenance
Others
By Deployment:
Cloud
On-Premise
By End Use:
Commercial Shipping
Naval and Defense
Port Management
Global Maritime Artificial Intelligence Market Size study, by Component (Hardware, Software), by Technology, b











Detailed analysis of geographical landscape with Country level analysis of major regions.

Competitive landscape with information on major players in the market.

Analysis of key business strategies and recommendations on future market approach.

Analysis of competitive structure of the market.

Demand side and supply side analysis of the market.

Companies Mentioned

IBM Corporation

BAE Systems

Orca Al

W?rtsil?

Fujitsu

ABB

Honeywell International Inc.

Kongsberg Gruppen

Alphabet Inc. (Google Cloud)

Rolls-Royce Holdings

Microsoft Corporation

Palantir Technologies



General Electric (GE)

SAP SE

Cisco Systems Inc.



Contents

CHAPTER 1. GLOBAL MARITIME ARTIFICIAL INTELLIGENCE MARKET EXECUTIVE SUMMARY

- 1.1. Global Maritime Al Market Size & Forecast (2022–2032)
- 1.2. Regional Summary
- 1.3. Segmental Summary
 - 1.3.1. By Component
 - 1.3.2. By Technology
 - 1.3.3. By Application
 - 1.3.4. By Deployment
 - 1.3.5. By End Use
- 1.4. Key Trends
- 1.5. Recession Impact
- 1.6. Analyst Recommendation & Conclusion

CHAPTER 2. GLOBAL MARITIME ARTIFICIAL INTELLIGENCE MARKET DEFINITION AND RESEARCH ASSUMPTIONS

- 2.1. Research Objective
- 2.2. Market Definition
- 2.3. Research Assumptions
 - 2.3.1. Inclusion & Exclusion
 - 2.3.2. Limitations
 - 2.3.3. Supply Side Analysis
 - 2.3.3.1. Availability
 - 2.3.3.2. Infrastructure
 - 2.3.3.3. Regulatory Environment
 - 2.3.3.4. Market Competition
 - 2.3.3.5. Economic Viability (Customer Perspective)
 - 2.3.4. Demand Side Analysis
 - 2.3.4.1. Regulatory Frameworks
 - 2.3.4.2. Technological Advancements
 - 2.3.4.3. Environmental Considerations
 - 2.3.4.4. Customer Awareness & Acceptance
- 2.4. Estimation Methodology
- 2.5. Years Considered for the Study
- 2.6. Currency Conversion Rates



CHAPTER 3. GLOBAL MARITIME ARTIFICIAL INTELLIGENCE MARKET DYNAMICS

- 3.1. Market Drivers
 - 3.1.1. Digital Optimization and Autonomous Operations
 - 3.1.2. Integration with IoT, Edge Computing & Big Data
 - 3.1.3. Demand for Situational Awareness and Emissions Reduction
- 3.2. Market Challenges
 - 3.2.1. Integration Complexities and High CapEx
 - 3.2.2. Fragmented Regulatory Environment
 - 3.2.3. Workforce Hesitance and Data Security Concerns
- 3.3. Market Opportunities
 - 3.3.1. Public-Private Innovation Partnerships
 - 3.3.2. Adoption of Digital Twin Technologies
 - 3.3.3. Scalable SaaS AI Platforms for Maritime Logistics

CHAPTER 4. GLOBAL MARITIME ARTIFICIAL INTELLIGENCE MARKET INDUSTRY ANALYSIS

- 4.1. Porter's Five Forces Model
 - 4.1.1. Bargaining Power of Suppliers
 - 4.1.2. Bargaining Power of Buyers
 - 4.1.3. Threat of New Entrants
 - 4.1.4. Threat of Substitutes
 - 4.1.5. Competitive Rivalry
 - 4.1.6. Futuristic Approach to Porter's Model
 - 4.1.7. Porter's Model Impact Analysis
- 4.2. PESTEL Analysis
 - 4.2.1. Political
 - 4.2.2. Economic
 - 4.2.3. Social
 - 4.2.4. Technological
 - 4.2.5. Environmental
- 4.2.6. Legal
- 4.3. Top Investment Opportunities
- 4.4. Top Winning Strategies
- 4.5. Disruptive Trends
- 4.6. Industry Expert Perspectives



4.7. Analyst Recommendation & Conclusion

CHAPTER 5. GLOBAL MARITIME ARTIFICIAL INTELLIGENCE MARKET SIZE & FORECASTS BY COMPONENT, 2022–2032

- 5.1. Segment Dashboard
- 5.2. Hardware Revenue Trend Analysis, 2022 & 2032
- 5.3. Software Revenue Trend Analysis, 2022 & 2032

CHAPTER 6. GLOBAL MARITIME ARTIFICIAL INTELLIGENCE MARKET SIZE & FORECASTS BY TECHNOLOGY, 2022–2032

- 6.1. Segment Dashboard
- 6.2. Machine Learning Revenue Trend Analysis, 2022 & 2032
- 6.3. Computer Vision Revenue Trend Analysis, 2022 & 2032
- 6.4. Natural Language Processing Revenue Trend Analysis, 2022 & 2032
- 6.5. Predictive Analytics Revenue Trend Analysis, 2022 & 2032
- 6.6. Other Technologies Revenue Trend Analysis, 2022 & 2032

CHAPTER 7. GLOBAL MARITIME ARTIFICIAL INTELLIGENCE MARKET SIZE & FORECASTS BY APPLICATION, 2022–2032

- 7.1. Segment Dashboard
- 7.2. Fleet Management Revenue Trend Analysis, 2022 & 2032
- 7.3. Autonomous Shipping Revenue Trend Analysis, 2022 & 2032
- 7.4. Maritime Surveillance & Security Revenue Trend Analysis, 2022 & 2032
- 7.5. Smart Port Operations Revenue Trend Analysis, 2022 & 2032
- 7.6. Navigation & Route Optimization Revenue Trend Analysis, 2022 & 2032
- 7.7. Predictive Maintenance Revenue Trend Analysis, 2022 & 2032
- 7.8. Other Applications Revenue Trend Analysis, 2022 & 2032

CHAPTER 8. GLOBAL MARITIME ARTIFICIAL INTELLIGENCE MARKET SIZE & FORECASTS BY DEPLOYMENT, 2022–2032

- 8.1. Segment Dashboard
- 8.2. Cloud Deployment Revenue Trend Analysis, 2022 & 2032
- 8.3. On-Premise Deployment Revenue Trend Analysis, 2022 & 2032

CHAPTER 9. GLOBAL MARITIME ARTIFICIAL INTELLIGENCE MARKET SIZE &



FORECASTS BY END USE, 2022-2032

- 9.1. Segment Dashboard
- 9.2. Commercial Shipping Revenue Trend Analysis, 2022 & 2032
- 9.3. Naval and Defense Revenue Trend Analysis, 2022 & 2032
- 9.4. Port Management Revenue Trend Analysis, 2022 & 2032
- 9.5. Oil & Gas Revenue Trend Analysis, 2022 & 2032
- 9.6. Fisheries Revenue Trend Analysis, 2022 & 2032
- 9.7. Other End Uses Revenue Trend Analysis, 2022 & 2032

CHAPTER 10. GLOBAL MARITIME ARTIFICIAL INTELLIGENCE MARKET SIZE & FORECASTS BY REGION, 2022–2032

- 10.1. North America Market
 - 10.1.1. U.S. Market
- 10.1.2. Canada Market
- 10.2. Europe Market
 - 10.2.1. UK Market
 - 10.2.2. Germany Market
 - 10.2.3. France Market
 - 10.2.4. Spain Market
 - 10.2.5. Italy Market
- 10.2.6. Rest of Europe Market
- 10.3. Asia Pacific Market
 - 10.3.1. China Market
 - 10.3.2. India Market
 - 10.3.3. Japan Market
 - 10.3.4. Australia Market
- 10.3.5. South Korea Market
- 10.3.6. Rest of Asia Pacific Market
- 10.4. Latin America Market
 - 10.4.1. Brazil Market
 - 10.4.2. Mexico Market
- 10.5. Middle East & Africa Market
 - 10.5.1. Saudi Arabia Market
 - 10.5.2. South Africa Market
 - 10.5.3. Rest of Middle East & Africa Market

CHAPTER 11. COMPETITIVE INTELLIGENCE



- 11.1. Key Company SWOT Analysis
 - 11.1.1. IBM Corporation
 - 11.1.2. BAE Systems
 - 11.1.3. Orca Al
- 11.2. Top Market Strategies
- 11.3. Company Profiles
 - 11.3.1. IBM Corporation
 - 11.3.1.1. Key Information
 - 11.3.1.2. Overview
 - 11.3.1.3. Financial (Subject to Data Availability)
 - 11.3.1.4. Product Summary
 - 11.3.1.5. Market Strategies
 - 11.3.2. BAE Systems
 - 11.3.3. Orca AI
 - 11.3.4. W?rtsil?
 - 11.3.5. Fujitsu
 - 11.3.6. ABB
 - 11.3.7. Honeywell International Inc.
 - 11.3.8. Kongsberg Gruppen
 - 11.3.9. Alphabet Inc. (Google Cloud)
 - 11.3.10. Rolls-Royce Holdings
 - 11.3.11. Microsoft Corporation
 - 11.3.12. Palantir Technologies
 - 11.3.13. General Electric (GE)
 - 11.3.14. SAP SE
 - 11.3.15. Cisco Systems Inc.

CHAPTER 12. RESEARCH PROCESS

- 12.1. Research Process
 - 12.1.1. Data Mining
 - 12.1.2. Analysis
 - 12.1.3. Market Estimation
 - 12.1.4. Validation
 - 12.1.5. Publishing
- 12.2. Research Attributes



List Of Tables

LIST OF TABLES

- TABLE 1. Global Maritime AI market, report scope
- TABLE 2. Global Maritime AI market estimates & forecasts by Region 2022–2032 (USD Billion)
- TABLE 3. Global Maritime AI market estimates & forecasts by Component 2022–2032 (USD Billion)
- TABLE 4. Global Maritime AI market estimates & forecasts by Technology 2022–2032 (USD Billion)
- TABLE 5. Global Maritime AI market estimates & forecasts by Application 2022–2032 (USD Billion)
- TABLE 6. Global Maritime AI market estimates & forecasts by Deployment 2022–2032 (USD Billion)
- TABLE 7. Global Maritime AI market estimates & forecasts by End Use 2022–2032 (USD Billion)
- TABLE 8. Global Maritime AI market by segment, estimates & forecasts, 2022–2032 (USD Billion)
- TABLE 9. U.S. Maritime AI market estimates & forecasts, 2022–2032 (USD Billion)
- TABLE 10. Canada Maritime Al market estimates & forecasts, 2022–2032 (USD Billion)
- TABLE 11. UK Maritime AI market estimates & forecasts, 2022–2032 (USD Billion)
- TABLE 12. Germany Maritime AI market estimates & forecasts, 2022–2032 (USD Billion)
- TABLE 13. China Maritime Al market estimates & forecasts, 2022–2032 (USD Billion)
- TABLE 14. India Maritime AI market estimates & forecasts, 2022–2032 (USD Billion)
- TABLE 15. Brazil Maritime AI market estimates & forecasts, 2022–2032 (USD Billion)
- TABLE 16. Mexico Maritime Al market estimates & forecasts, 2022–2032 (USD Billion)
- TABLE 17. Saudi Arabia Maritime Al market estimates & forecasts, 2022–2032 (USD Billion)
- TABLE 18. South Africa Maritime AI market estimates & forecasts, 2022–2032 (USD Billion)
- ... (Additional tables up to >100 as per full report)



List Of Figures

LIST OF FIGURES

- FIG 1. Global Maritime AI market, research methodology
- FIG 2. Global Maritime AI market, market estimation techniques
- FIG 3. Global market size estimates & forecast methods
- FIG 4. Global Maritime AI market, key trends 2023
- FIG 5. Global Maritime AI market, growth prospects 2022–2032
- FIG 6. Global Maritime AI market, Porter's Five Forces model
- FIG 7. Global Maritime AI market, PESTEL analysis
- FIG 8. Global Maritime AI market, value chain analysis
- FIG 9. Maritime AI market by Component, 2022 & 2032 (USD Billion)
- FIG 10. Maritime AI market by Technology, 2022 & 2032 (USD Billion)
- FIG 11. Maritime AI market by Application, 2022 & 2032 (USD Billion)
- FIG 12. Maritime AI market by Deployment, 2022 & 2032 (USD Billion)
- FIG 13. Maritime AI market by End Use, 2022 & 2032 (USD Billion)
- FIG 14. Global Maritime AI market, regional snapshot 2022 & 2032
- FIG 15. North America Maritime AI market 2022 & 2032 (USD Billion)
- FIG 16. Europe Maritime AI market 2022 & 2032 (USD Billion)
- FIG 17. Asia Pacific Maritime AI market 2022 & 2032 (USD Billion)
- FIG 18. Latin America Maritime AI market 2022 & 2032 (USD Billion)
- FIG 19. Middle East & Africa Maritime AI market 2022 & 2032 (USD Billion)
- FIG 20. Global Maritime AI market, company market share analysis (2023)
- ... (Additional figures up to >50 as per full report)



I would like to order

Product name: Global Maritime Artificial Intelligence Market Size study, by Component (Hardware,

Software), by Technology, by Application, by Deployment, by End Use and Regional

Forecasts 2022-2032

Product link: https://marketpublishers.com/r/GA514013B7C2EN.html

Price: US\$ 3,218.00 (Single User License / Electronic Delivery)

If you want to order Corporate License or Hard Copy, please, contact our Customer

Service:

info@marketpublishers.com

Payment

To pay by Credit Card (Visa, MasterCard, American Express, PayPal), please, click button on product page https://marketpublishers.com/r/GA514013B7C2EN.html