

# AI Driven Predictive Maintenance Market by Offering (Software, Services), Solution (Integrated, Standalone), Deployment Mode (Cloud-based, On-premises), Technique (Vibration Analysis, Oil Analysis), and Organization Size-Global Forecast to 2032

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## Abstracts

The AI-driven predictive maintenance market is anticipated to grow from USD 2.61 billion in 2026 to USD 19.27 billion by 2032, at a CAGR of 39.5% between 2026 and 2032. The increasing focus on cost optimization and asset lifecycle extension across industries drives the market growth. Organizations are under growing pressure to reduce maintenance costs while maximizing the efficiency and lifespan of critical equipment, leading to a shift from reactive and scheduled maintenance to data-driven approaches. AI-enabled predictive maintenance solutions help identify potential failures in advance, optimize spare parts inventory, and reduce unnecessary maintenance activities, thereby lowering operational expenditure and improving return on assets. This cost-efficiency advantage is encouraging widespread adoption across manufacturing, energy, transportation, and other asset-intensive sectors.

**“Vibration analysis is expected to hold the largest share, by technique, in 2032.”**

Vibration analysis currently holds the largest share of the AI-driven predictive maintenance market and is expected to remain one of the leading segments during the forecast period. Its dominance can be attributed to its widespread adoption across industries for early fault detection and equipment monitoring. This technique is extensively used in rotating machinery such as motors, pumps, and turbines, where changes in vibration patterns help identify issues such as imbalance, misalignment, and

component wear.

While other techniques, such as thermal imaging and oil analysis, are gaining traction, vibration analysis remains a foundational approach in predictive maintenance. As industries increasingly adopt proactive maintenance strategies and focus on operational efficiency, the demand for vibration analysis is expected to remain strong, thereby supporting its significant market share.

**“The healthcare industry is estimated to record the highest CAGR during the forecast period.”**

The healthcare segment is projected to grow at the highest CAGR in the AI-driven predictive maintenance market, driven by the increasing adoption of AI to improve equipment reliability and patient care. Healthcare industries are increasingly using AI to monitor critical medical equipment such as imaging systems, diagnostic devices, and hospital infrastructure, helping detect potential issues early and reduce unplanned downtime. The growing use of connected devices and digital systems is generating large volumes of data, enabling more accurate and timely maintenance planning through real-time insights. In addition, the need to ensure continuous operations, reduce maintenance costs, and improve asset utilization is encouraging the adoption of predictive maintenance solutions across healthcare facilities. The integration of IoT and advanced analytics is further supporting this shift toward proactive maintenance strategies. As healthcare providers continue to focus on operational efficiency, service quality, and patient safety, the demand for AI-driven predictive maintenance solutions is expected to increase significantly during the forecast period.

**“The Asia Pacific is expected to grow at the highest CAGR during the forecast period.”**

The Asia Pacific is expected to grow at the highest CAGR in the AI-driven predictive maintenance market, driven by rapid digital transformation and increasing AI adoption across industries. Countries such as China, Japan, South Korea, and India are investing in smart manufacturing, industrial automation, and digital infrastructure, driving demand for predictive maintenance solutions. Governments across the region are supporting technology adoption through initiatives focused on Industry 4.0, smart factories, and the development of the digital economy. The growing use of connected equipment and IoT devices is generating large volumes of operational data, enabling organizations to adopt AI-based solutions for real-time monitoring and early fault detection.

Extensive primary interviews were conducted with key industry experts in the AI-driven predictive maintenance to determine and verify the market size for various segments and subsegments gathered through secondary research. The breakdown of primary participants for the report is provided below:

The study includes insights from industry experts, ranging from component suppliers to Tier 1 companies and OEMs. The break-up of the primaries is as follows:

By Company Type: Tier 1–40%, Tier 2–25%, and Tier 3–25%

By Designation: C-level–40%, Directors–45%, and Others–15%

By Region: North America–26%, Europe–28%, Asia Pacific–41%, and RoW–5%

The report profiles key players in the AI-driven predictive maintenance market, including their respective market rankings. Prominent players profiled in this report are IBM (US), Siemens (Germany), SAP SE (Germany), GE Vernova (US), C3.ai (US), ABB (Switzerland), Schneider Electric (France), Hitachi, Ltd. (Japan), Uptake Technologies Inc. (US), among others.

KONE (Finland), PTC (US), Emerson Electric Co. (US), Honeywell International Inc. (US), Augury Ltd. (US), Nanoprecise (Canada), Oracle (US), SKF AB (Sweden), Falkonry (US), Capgemini (France), Hexagon AB (Sweden), Dynamox (Brazil), Bosch Global Software Technologies Private Limited (India), eMaint (US), and Rockwell Automation (US) are among the few other companies in the market.

### **Research Coverage:**

This research report categorizes the AI-driven predictive maintenance market based on offering, solution, deployment mode, organization size, technique, industry, and region. The report describes the major drivers, restraints, challenges, and opportunities for the market and forecasts them through 2032. Apart from this, the report includes leadership mapping and analysis of all companies in the ecosystem.

### **Key Benefits of Buying the Report**

The report will help market leaders/new entrants in this market by providing information on the closest approximations of the numbers for the overall market and its

subsegments. This report will help stakeholders understand the competitive landscape and gain additional insights to better position their businesses and plan suitable go-to-market strategies. The report also helps stakeholders understand the pulse of the market and provides them with information on key market drivers, restraints, challenges, and opportunities.

**The report provides insights into the following pointers:**

Analysis of Key Drivers (increasing demand for real-time condition monitoring systems, increasing demand to reduce unplanned equipment downtime, growing adoption of Industry 4.0 and smart manufacturing, expansion of IoT-enabled connected assets and sensors)

Product Development/Innovation: Detailed insights into upcoming technologies, research & development activities, and new product launches in the market

Market Development: Comprehensive information about lucrative markets—the report analyzes the market across varied regions.

Market Diversification: Exhaustive information about new products, untapped geographies, recent developments, and investments in the market

Competitive Assessment: In-depth assessment of market shares, growth strategies, and service offerings of leading market players, such as IBM (US), Siemens (Germany), SAP SE (Germany), GE Vernova (US), and C3.ai (US)

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