

Global AI in Oil and Gas Market Size Study, by Component (Solution, Services), by Operation (Upstream, Midstream, Downstream), and Regional Forecasts 2022-2032

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Abstracts

Global AI in Oil and Gas Market is estimated to be valued at approximately USD 3.5 billion in 2023 and is projected to grow at a compound annual growth rate (CAGR) of 14.1% from 2024 to 2032, ultimately reaching a valuation of USD 13 billion by the end of 2032. AI is also being utilized in exploration and production within the oil and gas sector. It can analyze seismic data to identify potential oil and gas reserves more accurately and quickly than traditional methods. This capability allows companies to make better decisions regarding drilling and resource extraction. Furthermore, AI assists in predictive maintenance by analyzing sensor data to predict equipment failures, thereby reducing downtime, maintenance costs, and improving safety. The increasing adoption of artificial intelligence (AI) in the oil and gas industry is primarily driven by the need to enhance operational efficiency. AI-powered systems analyze data from sensors and other sources to identify inefficiencies, enabling companies to take corrective actions. Additionally, AI plays a crucial role in identifying potential safety hazards, allowing for proactive measures to prevent accidents and injuries. By optimizing operations and identifying inefficiencies, AI helps companies reduce operating costs and improve profitability in a highly competitive market. Also, the increasing adoption of artificial intelligence (AI) in the oil and gas industry is primarily driven by the need to enhance operational efficiency. AI-powered systems analyze data from sensors and other sources to identify inefficiencies, enabling companies to take corrective actions. Additionally, AI plays a crucial role in identifying potential safety hazards, allowing for proactive measures to prevent accidents and injuries. By optimizing operations and identifying inefficiencies, AI helps companies reduce operating costs and improve profitability in a highly competitive market. Despite these

benefits, challenges such as data quality and availability persist. High-quality data is essential for AI algorithms to function effectively. The oil and gas industry has historically faced issues with data silos, incomplete datasets, and a lack of standardization, making it difficult for AI models to work across the entire value chain. Key regions considered for the Global AI in Oil and Gas market study include Asia Pacific, North America, Europe, Latin America, and the Rest of the World. North America is a leading market for AI in the oil and gas sector, driven by its strong economy, widespread adoption of AI technologies, significant presence of top AI software and system suppliers, and joint investments by government and private entities in research and development. The region's expanding oil and gas production capacities and rising investments are expected to further enhance market opportunities.

Major market players included in this report are:

IBM

Schlumberger

Halliburton

Baker Hughes

Microsoft

C3.ai

Siemens

Honeywell

Oracle

Accenture

Google Cloud

Rockwell Automation

Infosys

TIBCO Software

ABB

The detailed segments and sub-segment of the market are explained below:

By Component:

- Solution
- Services

By Operation:

- Upstream
- Midstream
- Downstream

By Region:

North America

- U.S.
- Canada

Europe

- UK
- Germany
- France
- Spain
- Italy
- ROE

Asia Pacific

- China
- India
- Japan
- Australia
- South Korea
- RoAPAC

Latin America

- Brazil
- Mexico

Middle East & Africa

- Saudi Arabia
- South Africa
- RoMEA

Years considered for the study are as follows:

- Historical year – 2022
- Base year – 2023
- Forecast period – 2024 to 2032

Key Takeaways:

- Market Estimates & Forecast for 10 years from 2022 to 2032.
- Annualized revenues and regional level analysis for each market segment.
- 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.

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