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Global Artificial Intelligence (AI) in Networks Market Size study & Forecast, by Component, Deployment, Technology, Application, End-Use, and Regional Forecasts 2025-2035

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Abstracts

The Global Artificial Intelligence (AI) in Networks Market was valued at approximately USD 11.49 billion in 2024 and is expected to grow at a staggering CAGR of 32.50% over the forecast period 2025-2035. Artificial Intelligence in networks is rapidly reshaping the future of digital infrastructure, redefining how modern networks operate, optimize, and evolve. By leveraging deep learning algorithms, predictive analytics, and autonomous decision-making capabilities, AI-driven network solutions enhance system intelligence, boost operational efficiency, and minimize human intervention. From predictive maintenance to automated fault detection and traffic optimization, AI is not only streamlining legacy networks but also unlocking the future potential of 5G, edge computing, and IoT ecosystems. The relentless growth of data and connected devices is fundamentally driving the need for smarter, self-healing, and resilient network architectures powered by AI.

The exponential surge in digital transformation initiatives across both enterprise and telecom sectors is propelling the adoption of AI across network infrastructures. The deployment of 5G networks, expansion of cloud-native services, and rising demand for real-time data processing have intensified the focus on intelligent network management. AI technologies embedded within network layers are now pivotal in orchestrating traffic, managing latency, ensuring data security, and optimizing bandwidth consumption. Moreover, the demand for zero-touch automation, combined with the complexities of hybrid cloud environments, has made AI essential to sustaining network scalability and uptime. Despite these promising growth drivers, issues related to high integration costs, data privacy, and lack of standardization may pose intermittent hurdles. However,

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ongoing advancements in AI frameworks, coupled with cross-industry collaborations and government-backed digital infrastructure programs, are expected to mitigate these constraints over the coming decade.

Regionally, North America is projected to dominate the AI in Networks market, buoyed by massive investments in 5G infrastructure, rapid cloud adoption, and a high concentration of tech giants fostering innovation through AI. The U.S., in particular, continues to lead the AI research and deployment landscape with its mature digital ecosystem. Meanwhile, Asia Pacific is anticipated to witness the fastest growth during the forecast period. Countries like China, Japan, South Korea, and India are increasingly deploying AI to enhance smart city projects, expand high-speed networks, and streamline telecom services. Europe is also advancing steadily, driven by stringent regulatory frameworks promoting secure, transparent, and ethical AI usage in networking. Latin America and the Middle East & Africa are gradually catching up, supported by expanding internet penetration and digital transformation agendas initiated by governments and private stakeholders.

Major market player included in this report are:

Cisco Systems, Inc.

Huawei Technologies Co., Ltd.

Juniper Networks, Inc.

Nokia Corporation

Ericsson

IBM Corporation

Hewlett Packard Enterprise (HPE)

Google LLC

Microsoft Corporation

Intel Corporation

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Samsung Electronics Co., Ltd.

NEC Corporation

Dell Technologies Inc.

ZTE Corporation

VMware, Inc.

Global Artificial Intelligence (AI) in Networks Market Report Scope:

Historical Data – 2023, 2024

Base Year for Estimation – 2024

Forecast period – 2025-2035

Report Coverage – Revenue forecast, Company Ranking, Competitive Landscape, Growth factors, and Trends

Regional Scope – North America; Europe; Asia Pacific; Latin America; Middle East & Africa

Customization Scope – Free report customization (equivalent up to 8 analysts' working hours) with purchase. Addition or alteration to country, regional & segment scope*

The objective of the study is to define market sizes of different segments & countries in recent years and to forecast the values for the coming years. The report is designed to incorporate both qualitative and quantitative aspects of the industry within the countries involved in the study. The report also provides detailed information about crucial aspects, such as driving factors and challenges, which will define the future growth of the market. Additionally, it incorporates potential opportunities in micro-markets for stakeholders to invest, along with a detailed analysis of the competitive landscape and product offerings of key players. The detailed segments and sub-segments of the market are explained below:

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By Component:

- Hardware
- Software

By Deployment:

- Cloud
- On-premises

By Technology:

- Machine Learning
- Natural Language Processing
- Context-Aware Computing
- Others

By Application:

- Network Security
- Network Optimization
- Predictive Maintenance
- Traffic Management
- Others

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By End-use:

- Telecom Operators
- Data Centers
- Cloud Service Providers
- Enterprises
- Others

By Region:

North America

- U.S.
- Canada

Europe

- UK
- Germany
- France
- Spain
- Italy
- Rest of Europe

Asia Pacific

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China

India

Japan

Australia

South Korea

Rest of Asia Pacific

Latin America

Brazil

Mexico

Middle East & Africa

UAE

Saudi Arabia

South Africa

Rest of Middle East & Africa

Key Takeaways:

Market Estimates & Forecast for 10 years from 2025 to 2035.

Annualized revenues and regional level analysis for each market segment.

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

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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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