AI in Telecommunication Market By Component (Solution, Service), By Deployment Model (On-Premise, Cloud), By Technology (Machine Learning, Natural Language Processing (NLP), Data Analytics, Others), By Application (Customer Analytics, Network Security, Network Optimization, Self-Diagnostics, Virtual Assistance, Others): Global Opportunity Analysis and Industry Forecast, 2021-2031

Market Report | 2022-12-01 | 280 pages | Allied Market Research

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Report description:

Artificial Intelligence in telecom uses software & algorithms to estimate human perception in order to analyze big data such as data consumption, call record, and use of the application to improve the customer experience. Also, AI helps the telecommunication operators to detect flaws in the network, network security, network optimization & offer virtual assistance. Moreover, AI enables the telecom industry to extract insights from their vast data sets and made it easier to manage daily business and resolve issues more efficiently and also provide improved customer service and satisfaction.
The growing adoption of AI solutions in various telecom applications is driving the market growth. The rising number of AI-enabled smartphones with a number of features such as image recognition, robust security, voice recognition and many as compared to traditional phones is boosting the growth of AI in the telecommunication market. Furthermore, to cater to complex processes or telecom services, AI provides a simpler and easier interface in telecommunication. In addition, growing Over-The-Top (OTT) services, such as video streaming, have transformed the dissemination and consumption of audio and video content. With more consumers turning to OTT services, consumer demand for bandwidth has grown considerably. Carrying such ever-growing traffic from OTT services leads to high operational Expenditure (OpEx) for the telecommunication industry. Hence, AI helps the telecom industry to reduce operational costs by minimizing the human intervention needed for network configuration and maintenance. However, the major restraint of the AI in telecommunication market is the incompatibility between telecommunication systems and AI technology. Contrarily, the increasing penetration of AI-enabled smartphones in the telecommunication industry, and the advent of 5G technology in smartphones are expected to provide major growth opportunities for the growth of the market. Since,

advancements such as 5G technology in mobile and the rising need to monitor content on the tale communication network to eliminate human error from telecommunication are driving the growth of the market. For an instance, the Chinese government trying to improve its network services and telecommunication services; hence China Telecom Corporation has started a new 5G base station in Lanzhou city. Therefore, these factors are expected to provide numerous opportunities for the expansion of the AI in telecommunication market during the forecast period.

The AI in telecommunication market is segmented on the basis of component, deployment model, technology, application, and region. By component, it is segmented into solution, and service. By deployment model, it is bifurcated on-premise, and cloud. By technology, the market is divided into machine learning, natural language processing (NLP), data analytics, and others. By application, it is segmented into customer analytics, network security, network optimization, self-diagnostics, virtual assistance, and others. By region, it is analyzed across North America, Europe, Asia-Pacific and LAMEA.

The report analyzes the profiles of key players operating in the AI in telecommunication market such as AT & T, Cisco Systems, Inc., Google, LLC, IBM Corporation, Infosys Limited, Intel Corporation, Microsoft, Nuance Communications, Inc, Salesforce, Inc., and ZTE Corporation. These players have adopted various strategies to increase their market penetration and strengthen their position in the AI in telecommunication industry.

Key benefits for stakeholders

-The study provides in-depth analysis of the global AI in telecommunication market along with the current & future trends to illustrate the imminent investment pockets.

-Information about key drivers, restrains, & opportunities and their impact analysis on the global AI in telecommunication market size are provided in the report.

-Porter's five forces analysis illustrates the potency of buyers and suppliers operating in the industry.

-The quantitative analysis of the global AI in telecommunication market from 2022 to 2031 is provided to determine the market potential.

Key Market Segments

By Component

- Solution
- Service

By Deployment Model

- On-Premise
- Cloud

By Technology

- Machine Learning
- Natural Language Processing (NLP)
- Data Analytics
- Others

By Application

- Customer Analytics
- Network Security
- Network Optimization
- Self-Diagnostics
- Virtual Assistance
- Others

By Region

- North America
- U.S.
- Canada
- Europe
- UK

- Germany
- France
- Italy
- Spain
- Rest of Europe
- Asia-Pacific
- China
- Japan
- India
- Australia
- South Korea
- Rest of Asia-Pacific
- LAMEA
- Latin America
- Middle East
- Africa
- Key Market Players
- Intel Corporation
- Nuance Communications, Inc.
- AT&T
- Infosys Limited
- ZTE Corporation
- IBM Corporation
- Google LLC
- Microsoft
- Salesforce, Inc.
- Cisco Systems, Inc.

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