

# Quantum Artificial Intelligence Synthetic Data Generator Market to Reach \$9.66 Billion by 2029 with 36.3% CAGR

*The Business Research Company's  
Quantum Artificial Intelligence Synthetic  
Data Generator Global Market Report  
2025 – Market Size, Trends, Forecast  
2025-2034*

LONDON, GREATER LONDON, UNITED  
KINGDOM, October 2, 2025

/EINPresswire.com/ -- What Is The

[Quantum Artificial Intelligence Synthetic Data Generator Market](#) Size And Growth?

The market size for quantum artificial intelligence synthetic data generators has seen a significant uptick in recent times. The market is projected to expand from \$2.05 billion in 2024 to \$2.80 billion in 2025, with a Compound Annual Growth Rate (CAGR) of 36.6%. Factors such as the

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rising dependence on data-oriented decision-making, the growing application of big data analytics in corporations, burgeoning investments in the domain of quantum computing research, and the escalating emphasis on superior quality datasets for promoting innovation, have all contributed to the growth observed in the historical period.

The market size of the quantum artificial intelligence synthetic data generator is anticipated to witness a significant surge in the forthcoming years, expanding to \$9.66 billion in 2029 with a Compound Annual Growth Rate

(CAGR) of 36.2%. This projected growth during the estimate period is ascribed to the increasing need for scalable and cost-effective data generation, the escalating significance of synthetic data in the healthcare and finance sectors, the surging demand for high-performance computing within enterprises, and the burgeoning need for advanced artificial intelligence model training. Major trends expected during this period encompass advancements in quantum artificial intelligence generative frameworks, innovations in hybrid quantum-classical computing, integration of synthetic data tools into cloud ecosystems, progress in quantum hardware for

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more rapid processing, and novel developments in data privacy-preserving algorithms.

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### What Are The Current Leading Growth Drivers For Quantum Artificial Intelligence Synthetic Data Generator Market?

The quantum artificial intelligence synthetic data generator market is anticipated to expand due to the increasing use of cloud-based solutions. These online services provide remote access to computing power, storage, and applications, bypassing the need for physical infrastructure or hardware on-site. The adoption of cloud-based solutions is increasing as they allow companies to modify resources as needed without incurring significant initial infrastructure expenses. Quantum artificial intelligence synthetic data generators benefit from these solutions by utilizing scalable computing resources, leading to swift and more effective data production. They also enhance accessibility and cooperation, facilitating effortless integration with AI workflows, and provide substantial analytics coverage across various industries. For instance, Eurostat, a government agency based in Luxembourg, reported in December 2023 that the purchase of cloud computing services by businesses grew by 4.2%, from 41% in 2021 to 45.2%. Hence, the increased use of cloud-based solutions is positively impacting the growth of the quantum artificial intelligence synthetic data generator market.

### Which Companies Are Currently Leading In The Quantum Artificial Intelligence Synthetic Data Generator Market?

Major players in the Quantum Artificial Intelligence Synthetic Data Generator Global Market Report 2025 include:

- International Business Machines Corporation
- NVIDIA Corporation
- Cognizant Technology Solutions Corporation
- SandboxAQ Inc
- Quantinuum Limited
- Datavant Inc.
- Sightwise Inc.
- IonQ Inc.
- Multiverse Computing S.L
- Tonic.ai Inc.

### What Are The Key Trends And Market Opportunities In The Quantum Artificial Intelligence Synthetic Data Generator Sector?

Firms at the forefront of the quantum artificial intelligence synthetic data generator market are concentrating on technological advancements, particularly on the development of quantum-enhanced artificial intelligence systems, in order to create highly accurate, diverse synthetic data

for sophisticated analytics. These systems, which employ both quantum computing principles and AI algorithms, process complicated data more quickly, solve issues more effectively, and generate insights beyond classical AI abilities. A case in point is the Gen QAI framework launched by the UK-based quantum computing establishment, Quantinuum Ltd., in February 2025. This system leverages the superior capabilities of the company's H2 quantum computer to generate synthetic data for AI training. The AI system, empowered by quantum computing, boosts the accuracy and quality of the synthetic data, in turn improving AI model performance and providing solutions to issues not addressable by classical systems. Notably, it overcomes intricate issues in sectors like pharmaceuticals, finance, and logistics through the integration of both quantum and classical computing methods, causing a significant shift in data generation and model training processes.

### How Is The Quantum Artificial Intelligence Synthetic Data Generator Market Segmented?

The quantum artificial intelligence synthetic data generator market covered in this report is segmented

- 1) By Component: Software, Hardware, Services
- 2) By Data Type: Structured Data, Unstructured Data, Semi-Structured Data
- 3) By Deployment Mode: On-Premises, Cloud
- 4) By Enterprise Size: Small And Medium Enterprises, Large Enterprises
- 5) By Application: Healthcare, Finance, Retail, Automotive, Information Technology And Telecommunications, Government, Other Applications

### Subsegments:

- 1) By Software: Machine Learning Platforms, Data Management Tools, Quantum Algorithm Development Tools, Simulation Software
- 2) By Hardware: Quantum Processors, Quantum Memory Units, Quantum Control Systems, Quantum Networking Devices
- 3) By Services: Consulting Services, Implementation Services, Support And Maintenance Services, Training And Education Services

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### Which Is The Dominating Region For The Quantum Artificial Intelligence Synthetic Data Generator Market?

In the 2025 Quantum Artificial Intelligence Synthetic Data Generator Global Market Report, North America held the dominant position in the previous year, with the Asia-Pacific region predicted to experience the most rapid expansion in the upcoming period. The report encompasses details from regions such as Asia-Pacific, Western Europe, Eastern Europe, North America, South America, the Middle East, and Africa.

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Speak With Our Expert:

Saumya Sahay

Americas +1 310-496-7795

Asia +44 7882 955267 & +91 8897263534

Europe +44 7882 955267

Email: [saumyas@tbrc.info](mailto:saumyas@tbrc.info)

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Oliver Guirdham

The Business Research Company

+44 7882 955267

[info@tbrc.info](mailto:info@tbrc.info)

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