

Global AI-Enabled Testing Market Forecast to Hit USD 1.77 Billion by 2029 at 20.1% CAGR

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/EINPresswire.com/ -- "The artificial intelligence (AI) enabled testing market is rapidly evolving as organizations seek more efficient and precise software testing methods. This growth is driven by the increasing complexity of software systems and the need to accelerate development cycles while maintaining high quality. Let's explore the current market size, the factors propelling its expansion, regional dynamics, and future trends shaping this innovative field.

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Expected to grow to \$1.77 billion in 2029 at a compound annual growth rate (CAGR) of 20.1%"

The Business Research Company

Projected Market Size and Growth of the AI Enabled Testing Market

The AI enabled testing market has witnessed remarkable expansion recently and is set to continue this trajectory. From a market size of \$0.7 billion in 2024, it is anticipated to reach \$0.85 billion in 2025, reflecting a strong compound annual growth rate (CAGR) of 21.4%. This

upward trend during the historical period can be linked to growing demands for faster software development, increased software complexity, widespread adoption of agile and DevOps practices, a push for better test coverage and accuracy, and the need to curb testing expenses.

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Forecasted Expansion and Emerging Opportunities in AI Enabled Testing

Looking ahead, the market is expected to surge dramatically, reaching \$1.77 billion by 2029 with a CAGR of 20.1%. Key growth drivers in this forecast period include the rise of AI-powered test



analytics platforms, the merging of AI with test management tools, and expanding AI capabilities in continuous testing pipelines. Additionally, the increasing demand for AI-driven security testing, along with broader use of AI-based testing in IoT and embedded systems, will fuel this expansion. Emerging trends include AI-centric test generation and execution, autonomous testing agents, predictive testing models, integration of AI with blockchain testing, and extending AI-driven testing to edge computing environments.

What AI Enabled Testing Actually Means in Software Development

AI enabled testing involves applying artificial intelligence algorithms to automate essential parts of the software testing process. This includes generating test cases, executing tests, and analyzing results, all aimed at boosting efficiency, precision, and scalability. By leveraging AI, organizations can perform faster and more adaptive testing, which enhances overall software quality, shortens time-to-market, and improves user satisfaction.

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The Impact of Cloud Computing on AI Enabled Testing Market Growth

One major factor driving the AI enabled testing market forward is the rapid rise of cloud computing. Cloud services deliver computing resources such as servers, storage, software, and analytics over the internet, offering greater flexibility, scalability, and cost savings. This trend allows businesses to streamline operations and adopt advanced technologies without heavy infrastructure investments. AI-powered testing benefits from cloud computing by transforming testing data into actionable insights, enabling better decision-making about software readiness. For example, according to Eurostat in December 2023, 59% of medium-sized enterprises in Europe used cloud computing in 2022, up from 53% in 2021. This growing cloud adoption is a key driver for the AI enabled testing market.

Leading Regions in AI Enabled Testing by 2025

In 2024, North America held the position as the largest market for AI enabled testing, thanks to its technological infrastructure and early adoption. However, the Asia-Pacific region is projected to experience the fastest growth over the forecast period. The report's regional coverage includes Asia-Pacific, Western Europe, Eastern Europe, North America, South America, the Middle East, and Africa, providing a broad perspective on global market trends.

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