

Generative Artificial Intelligence AI In Architecture Market Report 2025: Size, Trends, And Growth Insights

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LONDON, GREATER LONDON, UNITED
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/EINPresswire.com/ -- How Has The
[Generative Artificial Intelligence AI In
Architecture Market](#) Grown In Recent
Years?

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The [generative artificial intelligence AI in architecture market size](#) has surged over the past few years. From a valuation of \$1.05 billion in 2024, the sector is expected to reach \$1.48 billion in 2025, marking an exceptional compound annual growth rate CAGR of 41.3%. Factors such as the rise of parametric design, increased demand for sustainable and efficient building practices, growing complexity in architectural projects, the growing demand for personalized design solutions, the rise of computational design methodologies, and the growing importance of sustainability have fueled this historical growth.

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What Does The Future Hold For The Generative AI In Architecture Market?

The market is poised for more exponential growth in the coming years. By 2029, it is projected to reach an impressive \$5.85 billion, at a CAGR of 41.1%. This unprecedented growth can be attributed to the expansion of digital fabrication technologies, the introduction of parametric design tools, increasing demand for smart and adaptive buildings, greater emphasis on user experience, and expansion of virtual and augmented reality applications. Among the major trends of the forecast period are the rise of AI-driven adaptive building systems, integration with real-time environmental data, growth in AI-generated sustainable design solutions, the emergence of AI-powered design assistants, increasing use of generative design in urban planning, and the proliferation of AI-enhanced virtual and augmented reality tools for

architectural visualization.

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What Are The Key Growth Drivers Of The Generative AI In Architecture Market?

The growth of the generative artificial intelligence AI in architecture market is largely driven by the increasing demand for infrastructure development projects. Such projects denote large-scale initiatives aimed at expanding or enhancing the foundational systems and structures needed for a society or organization's growth and functioning. Economic development fuels infrastructure development by increasing the need for essential undertakings like building utilities and roads, further boosting economic activity and investment. Generative AI enhances infrastructure projects by refining design, magnifying efficiency, and cutting costs. It empowers architects and planners to promptly produce innovative designs, evaluate multiple potential scenarios, polish project planning, and drive higher demand for infrastructure development.

Who Are The Major Industry Players?

A few leading entities operating in this market include Microsoft Corporation, NVIDIA Corporation, Adobe Inc., Dassault Systèmes S.A., Autodesk Inc., ANSYS Inc., Hexaware Technologies Limited, Bentley Systems Inc., Altair Engineering Inc., Graphisoft SE, and Matterport Inc. Incidentally, these market players are striving to develop subscription-based design platforms as they create a gateway to explore intricate design possibilities and generate innovative architectural solutions.

How Is The Market Segmented?

The marketplace for generative artificial intelligence AI in architecture is segmented by deployment into Cloud-Based and On-Premises. It is segmented by technology into Machine Learning Algorithms, Software Platforms, and Hardware Infrastructure. By application, the categories are Architectural Design, Urban Planning, and Interior Design. The market segregation by end-user categorizes into Architectural Firms, Real Estate Developers, Government And Municipalities, and Construction Companies. Subsegments for Cloud-Based are Public Cloud, Private Cloud, Hybrid Cloud, while Small And Medium Enterprises SMEs and Large Enterprises are subsegments for On-Premises.

What Are The Regional Insights Of The Market?

In 2024, North America reigned supreme as the biggest region in the generative AI in architecture. The fastest-growing region in the forecast period is anticipated to be Asia-Pacific. The report covers the world's key regions, including Asia-Pacific, Western Europe, Eastern Europe, North America, South America, Middle East, Africa.

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