# Your Guide to Generative AI in Pharma: **10+** Must-Know Insights



is projected to reach in the Pharma market by the Generative AI by 2032, growing at a CAGR of 31.2%

(MarketResearch)

#### Top Artificial Intelligence Applications in Pharma



Accelerated and efficient drug discovery and development



Optimizing clinical trials



Upgrading pharmaceutical R&D with virtual assistants



Strengthening disease identification

and personalized medicine



Boosting pharmaceutical marketing and sales



Modernizing supply chain and manufacturing processes



Transforming knowledge delivery



Fortifying quality and safety management

## The Real-World Impact of Generative AI on Pharma Companies:

was the success rate achieved by DiffDock in molecular docking predictions, surpassing both traditional methods (23%) and deep learning methods (20%).

of the usual cost and 1/3 of the time was needed for Insilico Medicine developed a drug candidate using Al.

Source: Drug Discovery Trends

billion

compounds were the target of Recursion's AI predictions, enabling a scale of research in a week that would have taken 100,000 years with conventional approaches.

accuracy rate was achieved by this Insilico Medicine tool in predicting clinical trial outcomes.

### BCG's Five "Golden" Gen Al Use Cases for the Pharma Industry:

**25%** 

decrease in production time is being achieved through faster drug molecular design.

30%

accelerated clinical development.

shorter writing time can be achieved by automating medical writing in

**25**%

boost in performance could be achieved through enhanced quality **management** and automation of routine tasks.

10%

rise in revenue and a reduction in external agency costs by more than 25% are likely through more effective content creation, personalization, and adaptation.

40%

rise in efficiency in high-volume tasks could be achieved through facilitated review processes.

#### **Pros** of Using Generative Al in Pharma

Real-time adverse event monitoring

- Automated regulatory document generation and submission
- Improved patent landscaping and drug lifecycle management.

Intelligent resource allocation in R&D

- Al-enhanced drug repositioning
- manufacturing

Intelligent analysis of biomedical

Al-driven predictive maintenance in

literature

#### **Cons** of Using Generative Al in Pharma

challenges

Regulatory and compliance

- Data privacy and security concerns
- complexity of integration Bias and inaccuracy in Al models

High initial investment costs and

- Black-box decision-making
- Ongoing maintenance and updating requirements
- Keeping pace with Al evolution

Check out our in-depth guide on **Generative AI in Pharma** Also explore 👉

Want to dive deeper?

THE ULTIMATE HEALTHCARE **CHATBOT GUIDE:** 

eBook

Your Path to Smarter Patient Care

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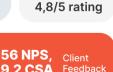


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