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

literature

manufacturing Intelligent analysis of biomedical

Al-driven predictive maintenance in

Cons of Using Generative Al in Pharma

- Regulatory and compliance challenges
- Data privacy and security concerns
- High initial investment costs and complexity of integration
- Bias and inaccuracy in Al models
- Black-box decision-making
- requirements

Keeping pace with Al evolution

Ongoing maintenance and updating

Want to dive deeper? Check out our in-depth guide on **Generative AI in Pharma** Also explore 👉

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CHATBOT GUIDE: Your Path to Smarter Patient Care **Read more**

At Master of Code Global we are a team of experts developing custom

ABOUT

world-class digital experiences for web, mobile, as well as conversational chat and voice solutions empowered by Al.

MOCG

Clutch 1,000+ Founded in 1+ Billion **** Projects 2004



Users Engaged



4,8/5 rating





Masters





Trusted by leaders

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The New York Times BURBERRY

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Quiq nylas V VONAGE LIVEPERSON A ada chatfue botpress Voiceflow



Our Points of Contact



Olga Hrom Delivery Manager olga.hrom@masterofcode.com



John Colón

VP of Global Enterprise Sales john.colon@masterofcode.com

