



Transforming Drug Discovery through GenAI and Data Engineering

Client

A global medical product company specializing in wound care, ostomy care, continence and critical care, and infusion devices. The client delivers advanced solutions to healthcare professionals and patients worldwide.

Business Need

Traditional drug discovery methods were time-consuming, expensive, and often failed to uncover viable candidates. The client faced limitations in processing vast biomedical datasets, identifying non-obvious drug-disease relationships, and simulating molecular interactions at scale.

The need of the hour was a data-driven, cost-effective automated solution that enables rapid screening of molecules and delivers faster results with precision.

Solution

Innominds implemented an AI-powered drug discovery platform with the following capabilities:

- **Drug Repurposing with AI:** Analyzed large-scale biomedical databases to uncover hidden links between existing drugs and diseases using advanced algorithms
- **Virtual Screening with Generative AI:** Simulated drug-target interactions to rapidly identify promising drug candidates
- **Molecular Simulations:** Enabled in-silico testing to accurately predict molecular behavior and binding affinities, streamlining the evaluation of potential compounds

Value Delivered

The solution helped with a more efficient process to identify new drug candidates, repurpose existing drugs, and accelerate the drug development cycle. The impact was:

- Faster decision-making through actionable insights
- Reduced data latency for quicker time-to-insight
- Unified performance visibility for leadership
- Strong data foundation enabling AI-driven drug discovery

Tools & Technologies

- Big Data & Analytics
- Reporting & Dashboards
- Power BI
- AWS
- Snowflake



Tap into the Power of GenAI and Data Engineering.
Partner with Innominds today!

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