Deloitte. | NVIDIA

Deloitte's Quartz Atlas AI™ for Agriculture

Transform your R&D efforts with data-centric AI.

Generative AI (GenAI) can be a powerful aid—helping agricultural organizations reduce the time and effort it takes to develop new products and innovations. However, building effective AI models on your own can be challenging.

With Deloitte's Quartz Atlas AI™ for Agriculture, powered by NVIDIA, you can accelerate scientific research while harnessing the power of data, predictive insights, and GenAI.

Deloitte and NVIDIA come together to deliver a ready-made solution that promotes knowledge creation and enhances research efficacy through AI. Our no-code web application empowers scientists to uncover profound insights, make well-informed decisions, and increase the accuracy of experiments—in hours, instead of years.

- **Improve crop monitoring and yields**
- **Decrease toxicity profiles and carbon footprints**
- **Proactively react to and mitigate diseases**
- **Increase chemical compound half-life**

Atlas AI is designed to address the shortcomings of existing data science and machine learning solutions. By combining state-of-the-art NVIDIA GPUs and BioNeMo inference microservices and blueprints with Deloitte's proprietary AI models and data pipelines, scientists can better understand the interaction between molecules and compounds to support new targets and product development.

- **Decrease research time and costs**
- **Reduce errors and dead-end research**
- **Accelerate time to market for new products**

How it works

Knowledge Graph
Generate scientific insights by connecting information from proprietary and open-science reference databases with industry-specific models.

- ✓ Aggregate data
- ✓ Generate insights
- ✓ Integrate ethical AI

LLMs
Synthesize data, examine patterns, predict behaviors, and suggest new hypotheses while grounding AI models to avoid hallucinations or bias.

- ✓ Analyze and synthesize data
- ✓ Orchestrate workflows
- ✓ Discover new hypotheses

AI-powered scientific pipelines
Quickly simulate full scientific experiments, then select the most promising findings for wet lab testing.

- ✓ Simulate experiments
- ✓ Rank hypotheses
- ✓ Targeted wet lab

Feedback loops
Ingest simulated and wet lab test results back into models to enrich data and improve predictive capabilities.

- ✓ Fine-tune models
- ✓ Optimize R&D processes
- ✓ Improve performance

Learn more at <URL>.