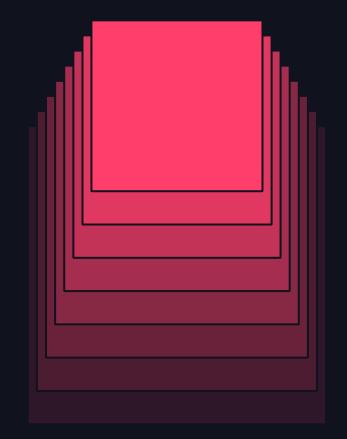


AI/BI Genie -Intro and Best Practices



Chao Cai, Sr. Director of Engineering Hanlin Sun, Associate Product Manager



Product safe harbor statement

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Databricks AI/BI

Intelligent analytics for real-world data

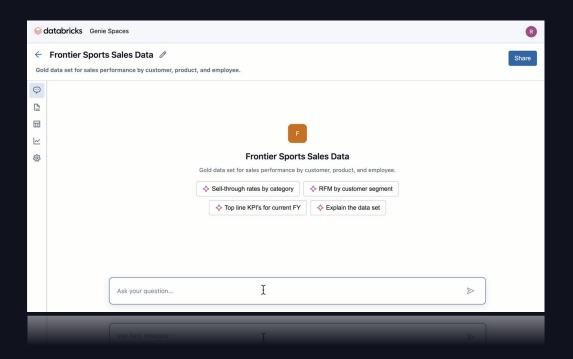


Governed and Secured with Unity Catalog



Now in Public Preview

Introducing AI/BI Genie



Natural Language Analytics

Direct Guidance/Control

Learns Over Time



Agenda

- Motivation for Genie
- Genie Fundamentals
 - How to Set Up Genie
 - End User Experience
 - How Genie Learns Over Time
- Live Demo

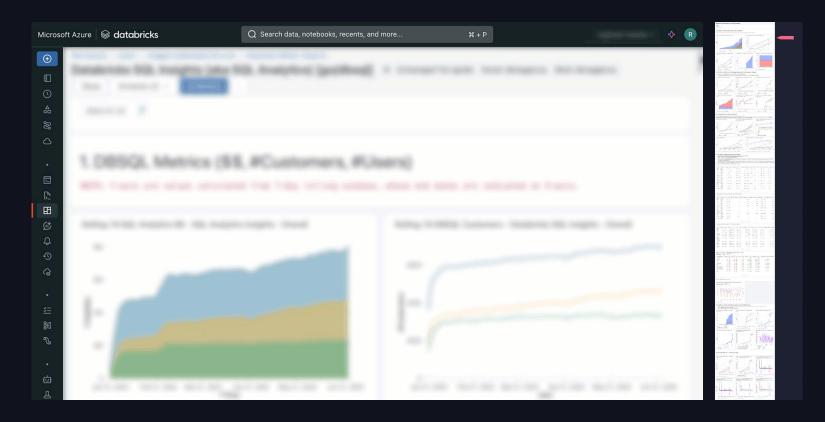
Motivation for Genie

Our mission is to democratize data + AI

for everyone

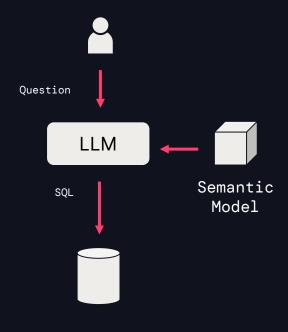


The Challenge with BI





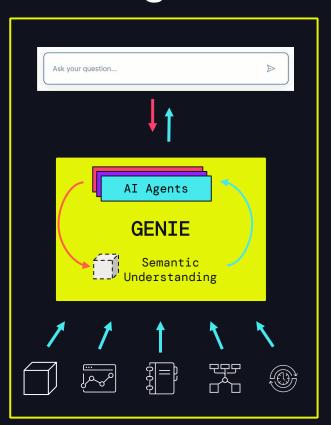
Conventional Text2SQL



Pre-modeled semantics



We designed Genie to...



- 1. Continuously learn your data + semantics
- 1. Include controls for guidance + oversight
- 1. Be easy and secure for business users

"AI/BI Genie is remarkable in its ability to understand the concepts and relationships that tie our operational and engagement data in ways that are unique to Accolade.

Our product managers, account managers and power users can now self-serve questions unanswered by dashboards..."

-Kapil Ashar, VP of Enterprise Data and Clinical Platforms



Genie Fundamentals

Genie Availability & Access

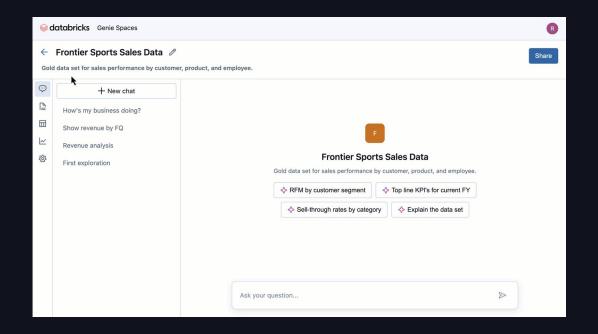
- Available in ungated Public Preview on AWS and Azure (GCP coming soon!)
 - Workspace admins can enable under Previews
 - Available on all non-GFM regions
- Data used by Genie must be in Unity Catalog
- Serverless or Pro SQL Warehouses required
- Accessible for users with SQL entitlement
- Free outside of warehouse costs!

Genie Fundamentals

Data teams set up topic specific Genie spaces

Business users can get answers to net-new data questions

Genie **learns over time** leveraging Data Intelligence Platform

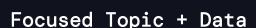


How to Set Up Genie



Genie Set Up Process





- Each Genie space should be topic-specific
- Bring in well-documented, clean Unity Catalog tables+metadata



Add Instructions

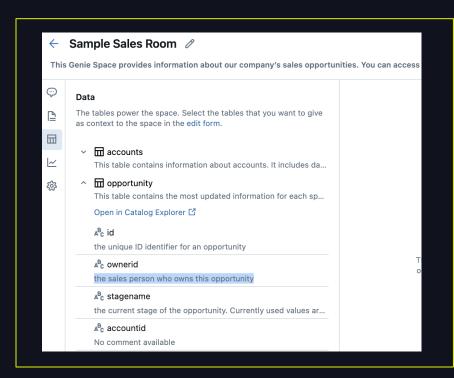
- Authors can guide + teach Genie
- General Instructions and sample SQL statements



Accuracy Validation

- Authors + trusted business users can test expected questions
- Make needed improvements to Instructions

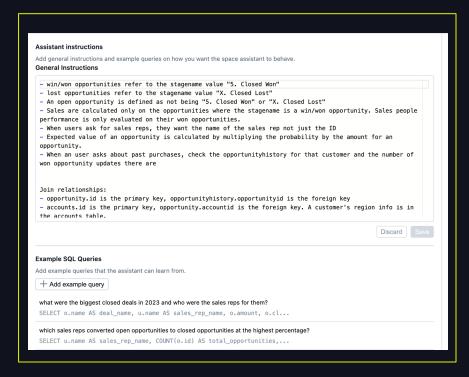
Focused Topic + Data



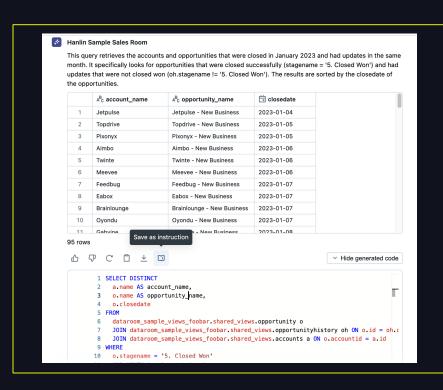
- Genie works on all types of data topics
- Bring in a focused set of tables
- Unity Catalog tables/views need to be well documented
- SUGGESTED: Create views to remove excess columns and clean data

General Instructions

- Gives data teams the power to give direct guidance
- Define your unique jargon, logic, concepts, KPIs, etc.
- Instructions are iterable over time



Sample SQL Statements



- Sample SQL statements directly teach the model how to answer specific questions
- "Save as Instruction" on verified SQL statements teaches Genie for future questions

End User Experience



"We recently made AI/BI Genie available to our key stakeholders so that they are able to ask and answer questions about electricity markets and our asset performance in live discussions without being reliant on a data analyst."

- Philipp Cüppers, Team Lead Energy Markets and Asset Optimisation, Vattenfall Hydro Gremany

VATTENFALL ___



Genie <> End Users



Answer net-new questions

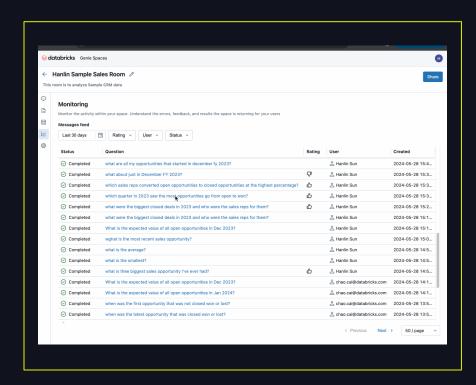


Get tabular or visual results



Provide feedback to teach Genie

Monitoring Page



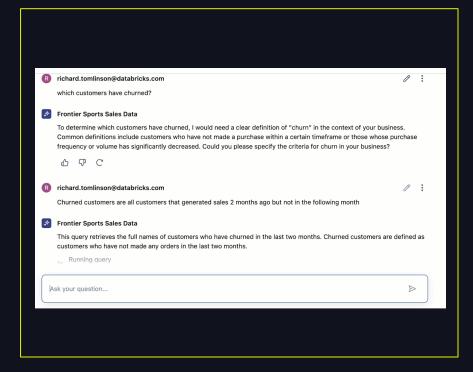
- Proactively understand what your business users are asking
- Step through how Genie behaved in a conversation thread
- Make improvements to your Instructions for future questions

Genie Learns Over Time

Genie Asks Follow Ups

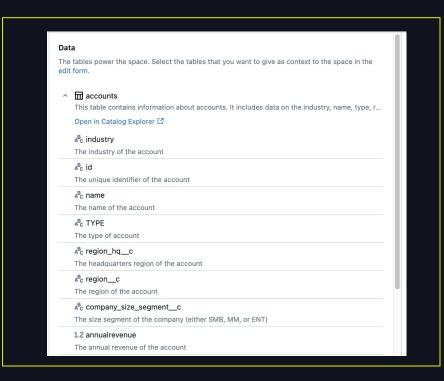
When a question isn't clear,
Genie is designed to ask
follow ups/clarifications

 Users can add and save new semantic knowledge for Genie to handle future questions



Data Intelligence Platform

- Unity Catalog table metadata is automatically added to Genie's knowledge base
- Create Genie from Dashboard
- COMING: automatically learning from your workspace's Query History, Dashboards, Queries, Notebooks, etc.



DEMO



Advanced Features (Coming Soon)

More ways to iterating and refine Genie for your team's needs

Certified Answers

When you have a mission critical question where you want 100% confidence that the answer will always be produced in a specific way, you can add a Certified Answer to prescribe this.

Canonical Metrics

For metrics where rollups are tricky to get right (e.g. unique users), we are introducing a way to precisely inform the space to query the right tables in the right ways.

Accuracy Evaluation

Dedicated experience for authors to test questions with Genie before sharing, including curating an ongoing validation question set that can be evaluated against the current set of instructions.

Learn more at the summit!



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Q&A

