

White Paper

Platform Overview of Agent Bricks its key Capabilities and Components

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1. EXECUTIVE SUMMARY

This white paper provides an overview on Agent Bricks which is a **Databricks-native framework** designed to accelerate the adoption of AI agents in enterprise environments. It reduces complexity, improves maintainability, and enables faster delivery of AI-driven solutions. Unlike traditional AI development, which often requires extensive custom coding and infrastructure setup, Agent Bricks provides a **structured, scalable, and governed framework**.

It integrates seamlessly with the Databricks Lakehouse, Unity Catalog, and Mosaic AI ecosystem, ensuring that AI agents are not only powerful but also compliant and secure. For businesses, this means **faster time-to-value**, reduced operational overhead, and the ability to embed AI directly into their data pipelines and decision-making processes.

2. INTRODUCTION

The rise of generative AI has created both opportunities and challenges for enterprises. While large language models (LLMs) offer new capabilities, building reliable, domain-specific agents requires careful orchestration. Agent Bricks addresses this challenge by offering a **modular approach**: each brick represents a reusable capability such as retrieval, summarization, or evaluation.

It reduces the need for complex coding and setup, while providing a structured and scalable way to build AI solutions. Agent Bricks works directly with the Databricks Lakehouse, Unity Catalog, and Mosaic AI, so agents are secure, compliant, and integrated with existing data. For businesses, this means faster results, lower costs, and the ability to bring AI into everyday data pipelines and decision making.

Agent Bricks is particularly suited for organizations that:

- Want to accelerate AI adoption without heavy upfront investment.
- Need clear governance and control over AI workflows.
- Operate in data-centric industries where integration with the Lakehouse is critical.
- Value scalability and maintainability in AI systems.

3. PLATFORM OVERVIEW

Feature	Agent Bricks (Databricks)
Focus	Data engineers, analysts, AI developers
Core Use Case	Build and optimize domain-specific AI agents
Interface	Low-code/no-code + APIs + Notebooks
Data Access	Native integration with Delta Lake, Unity Catalog, vector DBs
Models	Foundation models (MPT, Llama, Mixtral, etc.) via Unity Catalog
Model Customization	Full model fine-tuning, prompt engineering
Deployment	One-click optimized deployment with autoscaling endpoints
Governance	Unity Catalog for lineage, access control, audit

4. KEY CAPABILITIES

Agent Bricks provides a wide range of capabilities that make it suitable for enterprise-scale AI adoption:

- **Information Extraction:** Transform unstructured documents into structured tables. For example, a procurement team can automatically extract vendor details from thousands of contracts.
- **Custom LLM Tasks:** Perform summarization, classification, and transformation. A compliance officer can summarize regulatory updates into actionable insights.
- **Knowledge Assistant:** Build chatbots that cite sources, ensuring trust and transparency. A financial services firm can deploy assistants that answer client queries with references to audited data.
- **Multi-Agent Supervisor:** Coordinate multiple agents within Genie spaces. For instance, a retail company can orchestrate agents for demand forecasting, inventory optimization, and customer engagement.

These capabilities ensure that Agent Bricks is not just a development tool, but a **full lifecycle framework** for AI agents.

5. KEY COMPONENTS

The framework is composed of several critical components:

- **Agent Framework:** Provides modular bricks for orchestration.
- **Model Serving:** Offers foundation and partner models via Unity Catalog.
- **Vector Search:** Enables semantic search across enterprise data.
- **Evaluation & Monitoring:** Ensures agents meet quality and compliance standards.
- **Unity Catalog Integration:** Provides governance, lineage, and security.

Together, these components create a **robust ecosystem** where agents can be built, deployed, and continuously improved.

6. COST & LICENSE

Module	Pricing Model	Cost per Answer	Business Use Case
Multi-Agent Supervisor	DBU consumption (orchestration overhead)	Included in overall DBU usage	Coordinates multiple agents seamlessly, reducing manual effort and improving scalability.
Custom LLM	Fine-tuning costs vary by model size & dataset	Variable (dataset dependent)	Tailor's AI models to enterprise data for higher accuracy and domain-specific insights.
Information Extraction	Token-based processing	Usage-based (per token)	Automates parsing of contracts, HR records, CRM data, accelerating compliance and onboarding.
Knowledge Assistant	Token-based serving	Usage-based (per token)	Provides "Ask-Me-Anything" answers with citations, boosting trust and productivity.

Vector Search	Capacity pricing (500K vectors)	\$60–\$80/month	Enables semantic search across 5 lakh records, improving retrieval speed and accuracy.
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7. USE CASES

Challenge: Global enterprises often struggle with fragmented reporting across multiple systems CRM, Business Central, ZohoPeople, ZohoBooks, and QuickBooks. Each system generates its own dashboards, leading to duplication, inconsistent metrics, and governance risks. Business leaders lack a single source of truth to drive strategic decisions.

Solution with Agent Bricks: By leveraging Databricks and Logic Apps, organizations can migrate all reporting into a unified Power BI environment. Data from multiple sources is ingested into Blob Storage, transformed through the Medallion architecture (Raw → Silver → Gold) and governed by creating persona groups.

Once the Gold layer is established, secure connections feed Power BI dashboards, ensuring every report is powered by trusted, consistent data models. These models are then grouped into business-aligned Ginne Space blocks, which are orchestrated by the Multi-Agent Supervisor module in Agent Bricks.

This enables the creation of a product **Ask-Me-Anything** this will be an agent that allows executives, managers, and analysts to query the data directly in natural language. Insights are delivered by referring from Unity Catalog, ensuring transparency, compliance, and trust.

Business Impact:

Unified Reporting: Eliminates silos by consolidating all reports into a single Power BI source.

Governance & Compliance: Ensures auditability, regulatory adherence across all data pipelines.

Stakeholder Empowerment: Business users can interact with data conversationally, without technical barriers.

Strategic Advantage: Positions the enterprise as a leader in AI-driven, compliance-ready reporting.

8. COMPARISON BETWEEN AI FOUNDRY/ COPILOT STUDIO/ AGENT BRICK

- **Azure AI Foundry:** Offers flexibility and control but requires more technical expertise.
- **Copilot Studio:** Provides low-code entry points but is limited in scalability.
- **Agent Bricks:** Embeds AI directly into the Databricks Lakehouse, making it ideal for data-centric organizations.

The key differentiator is **data integration**. Agent Bricks ensures that AI agents are not siloed but are part of the enterprise data ecosystem.

9. RECOMMENDATIONS

Start with your team's skillset and use case

Business owners should align platform choice with team strengths. Copilot Studio suits business users, Azure AI Foundry suits developers, and Agent Bricks suits data engineers.

Assess ai maturity and long-term goals

Organizations new to AI can start with Copilot Studio. Advanced teams can leverage AI Foundry. Data-centric enterprises should adopt Agent Bricks to embed AI into their Lakehouse.

Use all platforms strategically

AI adoption doesn't have to be exclusive. Use Copilot Studio for quick wins, AI Foundry for innovation-heavy projects, and Agent Bricks for data-driven insights.

Focus on governance and scalability early

Governance is critical. Azure AI Foundry provides MLOps capabilities, while Agent Bricks leverages Unity Catalog for lineage and compliance.

Why this matters for business owners

Choosing the right AI platform is a **strategic business decision**. At CloudFronts, we help organizations navigate this journey, ensuring that investments in AI translate into **real business outcomes**.

10. CONCLUSION

Agent Bricks is more than a framework it is a **strategic enabler** for enterprises. By embedding AI directly into the Databricks Lakehouse, organizations can ensure that insights are scalable, governed, and actionable.

For companies seeking **future-ready AI systems**, Agent Bricks provides a modular, optimized, and continuously improving framework. Whether it's compliance reporting, procurement intelligence, or customer engagement, Agent Bricks ensures that AI is not just a tool, but a **core part of business strategy**.

Let's Connect

We hope you found this useful. If you would like to discuss anything further, please reach out to us at transform@cloudfronts.com