



## WHITE PAPER

# Understanding the Features of Databricks AI/BI Dashboards and Genie

In the rapidly evolving landscape of data analytics, organizations require tools that not only manage vast datasets but also transform them into actionable insights. Databricks addresses this need with its AI/BI Dashboards and Genie, two integrated components designed to empower business teams and data professionals alike.

## 1. AI/BI Dashboards: Empowering Data Professionals

Databricks' AI/BI Dashboards offer a comprehensive suite of features tailored for data professionals seeking to create, manage, and share interactive visualizations.

### a. Low-Code Authoring Experience

The dashboards provide a low-code environment, enabling users to build complex visualizations with minimal coding. This approach accelerates the dashboard creation process, allowing data professionals to focus on analysis rather than technical implementation.

### b. Enhanced Visualization Library

An expanded library of visualization options allows for the representation of data in various formats, catering to diverse analytical needs. This flexibility ensures that insights are presented in the most effective manner for the intended audience.

### **c. Cross-Filtering Capabilities**

Dashboards support interactive cross-filtering, enabling users to drill down into data points and explore relationships between variables. This interactivity enhances the depth of analysis and facilitates a more nuanced understanding of the data.

### **d. Seamless Sharing and Embedding**

Once created, dashboards can be securely shared with stakeholders across the organization, even those without direct access to the Databricks workspace. Additionally, dashboards can be embedded into third-party applications, ensuring that insights are accessible within existing workflows.

## **2. Genie: Conversational Analytics for Business Teams**

Complementing the dashboards, Genie introduces a conversational interface that democratizes data access for business teams.

### **a. Natural Language Processing (NLP) Interface**

Genie leverages advanced NLP capabilities, allowing users to pose questions in natural language. This intuitive interaction model eliminates the need for specialized training, making data insights accessible to non-technical users.

### **b. Adaptive Learning from User Feedback**

The system continuously refines its responses based on user interactions, ensuring that insights become more accurate and aligned with organizational needs over time.

### **c. Integration with Unity Catalog**

By integrating with Databricks' Unity Catalog, Genie ensures that data governance and access controls are maintained, providing a secure environment for data exploration.

### **d. Compound AI System Architecture**

Genie employs a compound AI system, combining multiple AI models and retrieval mechanisms to deliver comprehensive insights. This architecture enhances the system's ability to understand and respond to a wide array of business queries.

## **3. Integration and Synergy**

The true power of Databricks' AI/BI tools lies in their integration. While dashboards provide static visualizations for in-depth analysis, Genie offers dynamic, conversational insights. Together, they cater to a broad spectrum of analytical needs, from detailed reporting to on-the-fly data exploration.

## 4. Future Directions

As organizations increasingly rely on data-driven decision-making, the demand for intuitive and powerful analytics tools will continue to grow. Databricks' commitment to enhancing AI/BI Dashboards and Genie ensures that users will have access to cutting-edge features that streamline data analysis and foster a deeper understanding of their data.

## Conclusion

Databricks' AI/BI Dashboards and Genie represent a significant advancement in the realm of business intelligence. By combining robust visualization capabilities with conversational analytics, Databricks empowers organizations to unlock the full potential of their data, driving informed decision-making and fostering a culture of data literacy across all levels of the business.