

Dynamic Al-driven dashboards

As you've learned, data visualization through charts, graphs, and other visual formats makes data more accessible and understandable. This reading delves into how dynamic Artificial Intelligence (AI)-driven dashboards, especially those powered by Generative AI (GenAI), are revolutionizing data visualization.

Integration best practices

Effective integration of GenAl with visualization tools is key for creating dynamic dashboards. The process starts well before visualization, involving careful data preparation. Ensure your data is clean, well-structured, and relevant. Remember, the quality of GenAl's output hinges on the quality of its input. For example, if you're working with data in a retail business scenario, your input data should be from the same industry. Training models with data inputs from different industries will produce less accurate results.

The evolution of data dashboards

Data dashboards have evolved from being static to dynamic, reflecting the growing need for real-time data analysis. Dynamic dashboards continuously update and present the most relevant visuals based on ongoing data streams, ensuring that users always have access to the latest insights. This shift from static to dynamic visualizations means that dashboards are no longer just a snapshot but a living representation of data.

Dynamic visualizations

In dynamic dashboards, the visuals change as new data enters the stream. As an analyst, you will collaborate with data processing teams and stakeholders to determine the refresh rate of a dashboard. This adaptability means the dashboard might look different from one period to the next, reflecting the fluid nature of data.

Integrate Gemini for Workspace with Looker

Integrating Gemini for Workspace with Looker brings a dynamic enhancement to data analytics, leveraging the power of generative AI to transform how data is interacted with and visualized. This combination allows users to engage in intuitive, conversational interactions about their data to help simplify complex data queries and analysis. For example, you might ask Gemini for Workspace questions about a specific data stream and receive detailed, insightful answers quickly. Having an automated resource like Gemini for Workspace integrated with



Looker helps reduce your efforts during the analysis process and makes insights more accessible.

Together with Looker, Gemini for Workspace can also create advanced visualizations and comprehensive reports through simple text instructions. This feature helps streamline your data visualization workflow. For example you can have Gemini for Workspace generate Google Slides presentations from these reports along with succinct summaries. You can also create and modify formulas to enhance the depth of your data transformations.

Considerations and limitations

While integrating GenAl tools offer numerous benefits, it's important to be aware of potential limitations. Always verify the sources of your data streams for accuracy and relevance. Al-driven visualizations can have inherent biases or limitations. For instance, if the GenAl model is trained on biased data, the resulting visualizations might misrepresent certain trends or patterns. It's important to approach Al-generated data with a critical mind and understand the context of the data.

Key takeaways

Dynamic Al-driven dashboards, particularly those utilizing GenAl, provide businesses with the most up-to-date and relevant information. Best practices in Integration, combined with tools like Gemini for Workspace and Looker, enable effective visualizations and useful insights. It's important to approach Al-generated data critically, understanding its potential limitations and biases.