

AI TRANSFORMATION TALES

Gen-Viz: AI-enabled Data Visualization Tool for Data Democratization across Organization



BACKGROUND

In today's data-driven business landscape, efficient analysis and visualization of large datasets play a pivotal role in strategic decision-making. Our client, a leading performance management software company, recognized the challenges faced by professionals in creating ad hoc dashboards and handling voluminous datasets. They partnered with Aspire System for an innovative solution that would enable business users to effortlessly generate informative dashboards through intuitive natural language interfaces.

The core objectives of this project were to:

- enhance data interpretation for business users
- facilitate structured and unstructured data exploration through dynamic dashboards
- improve user engagement through a flexible and intuitive Gen AI-enabled visualization framework



THE SOLUTION

After performing a comprehensive analysis of the client's current business challenges and the required capabilities, our experts proposed the most intuitive yet powerful solution to the client. After explaining the business benefits and our strategic approach to develop and implement the proposed solution, the experts adhered to the client's stringent timeframe and used the following approach to implement the solution:

- **Gen-Viz:** created a flexible and user-friendly framework that allows business users to interact with their data through natural language queries. This custom-built framework is designed to easily understand user intentions and promptly generate informative dashboards without the need for pre-defined templates.
- **Orchestrator:** This component adds a whole lot of meaning to Gen-Viz by seamlessly integrating it with Gen-AI. This also converts free-text user queries into structured SQL queries, enabling access to both structured and unstructured data sources. One of the key features of this orchestrator is that it can generate intermediate visual representations, extracts insights, and build visually appealing dashboards using JavaScript in seconds.
- **Visual Fusion:** This component can handle both structured and unstructured data. With GenViz's adaptable features in place, users can explore and visualize diverse datasets, uncovering valuable insights. Furthermore, the integration of AWS QuickSight enhances comprehensive data analysis and visualization capabilities, empowering users to make data-driven decisions with ease.



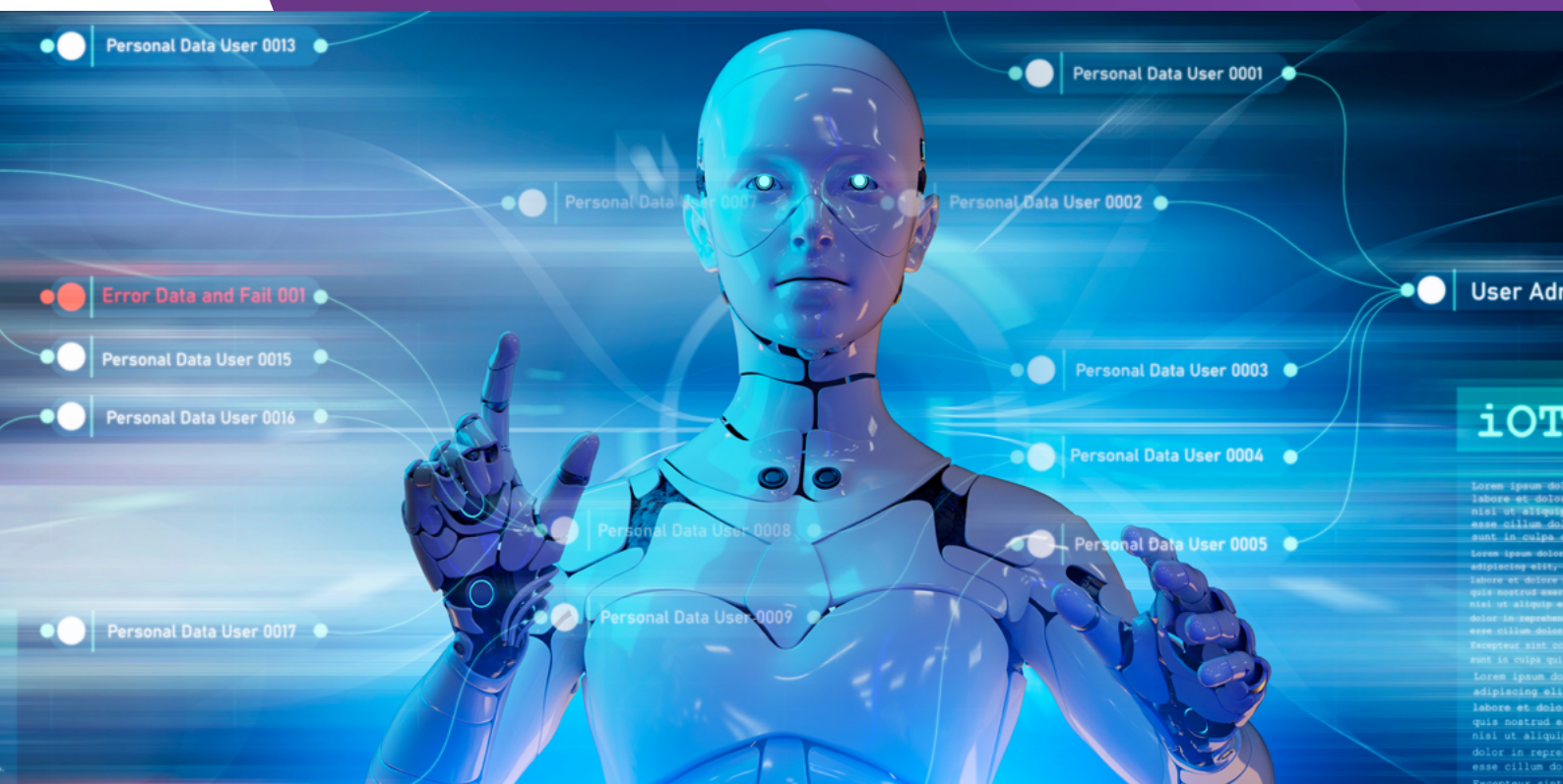
TECHNOLOGY SNAPSHOT

- Gen-AI
- SQL
- LLMs
- AWS QuickSight
- JavaScript



BUSINESS BENEFITS

- huge cost savings
- saved significant time and effort.
- data visualization accessible to users with varying levels of technical expertise



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