Gartner Peer Community

Unleashing the Power of Generative AI for **Data and Analytics**



The potential use cases for GenAI are extensive. How are leaders applying this technology in their data and analytics (D&A) function today, and how do they plan to in the future?

One-Minute Insights:

ૡૼૺૺૼૼૼૼૺ	Most respondents' D&A functions are engaging with GenAI by adopting or considering use cases
နှိ	Top use cases already adopted are data exploration, code generation and document summarization
₽ 	Data narrative generation, conversational interfaces for analytics and data exploration could be valuable use cases for respondent D&A functions to adopt over the next 24 months
‡	Conversational interfaces for analytics, code generation and data exploration are considered the most feasible use cases for adoption in the next 24 months
ŻZZŻ	More than half of respondents consider skills gaps a main barrier to adoption in their D&A function

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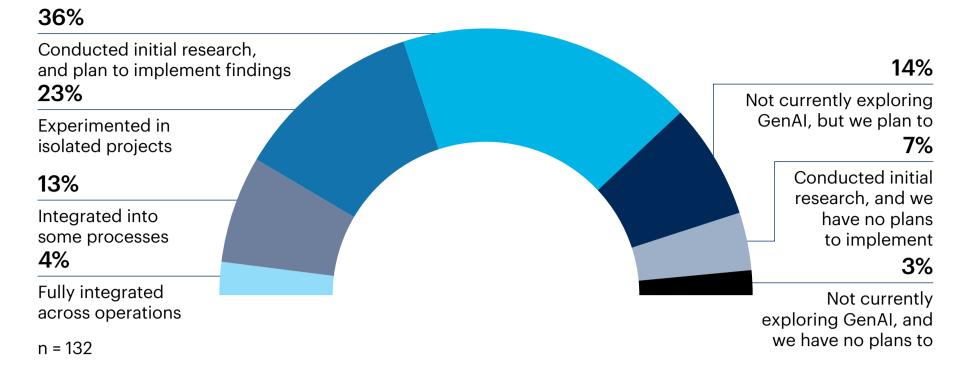
Data collection: Aug 26 - Sep 5, 2023

Respondents: 132 IT and data and analytics leaders with knowledge about GenAI applications to D&A who own or collaborate on their organization's D&A strategy

Most respondent D&A functions are in the early stages of GenAI adoption

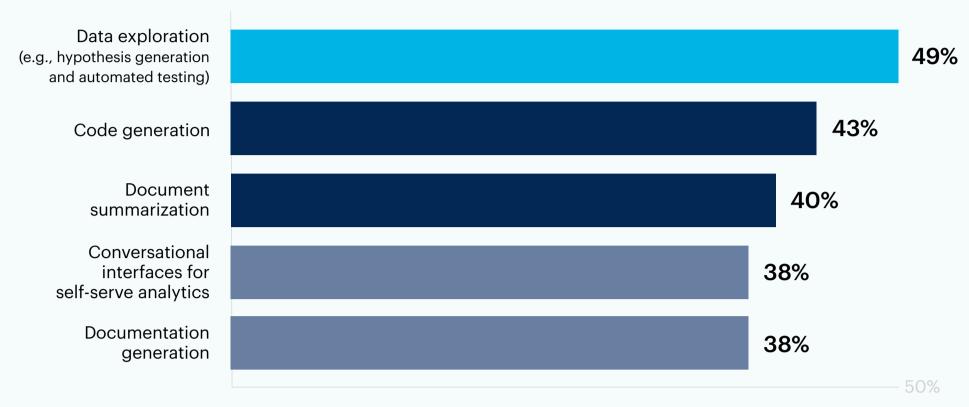
Only 10% of respondents are not planning to explore or implement GenAI for their D&A function. 36% have conducted initial research and plan to implement their findings, and 40% are already using GenAl to some extent.





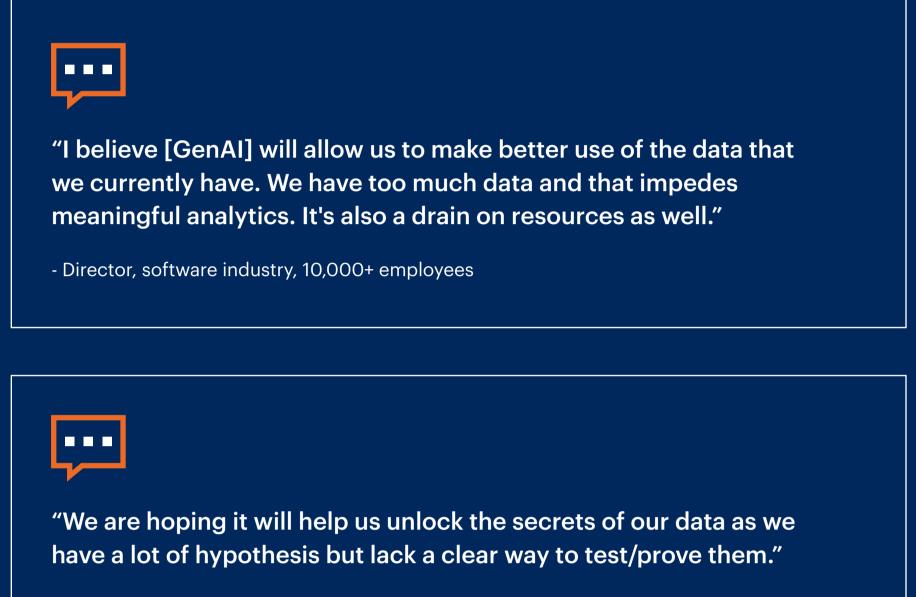
Among the respondents whose D&A functions are currently using GenAI in some capacity (n = 53), the most common applications are for data exploration (49%), code generation (43%) and document summarization (40%).

How is your D&A function currently using GenAI? Select all that apply.



n = 53 Conversational interfaces for data professionals 36% | Productivity (e.g., generating to-do lists, meeting summaries, etc.) 34% | Data narrative generation (i.e., contextualized explanations of datasets) 32% | Synthetic data generation 19% | Personalized and interactive training for D&A 11% | I don't know 0% | Other 0%

Question shown only to respondents who answered "Experimented in isolated projects," "Integrated into some processes," or "Fully integrated across operations" to "Which of the following best describes your data and analytics (D&A) function's engagement with generative AI (GenAI)?"

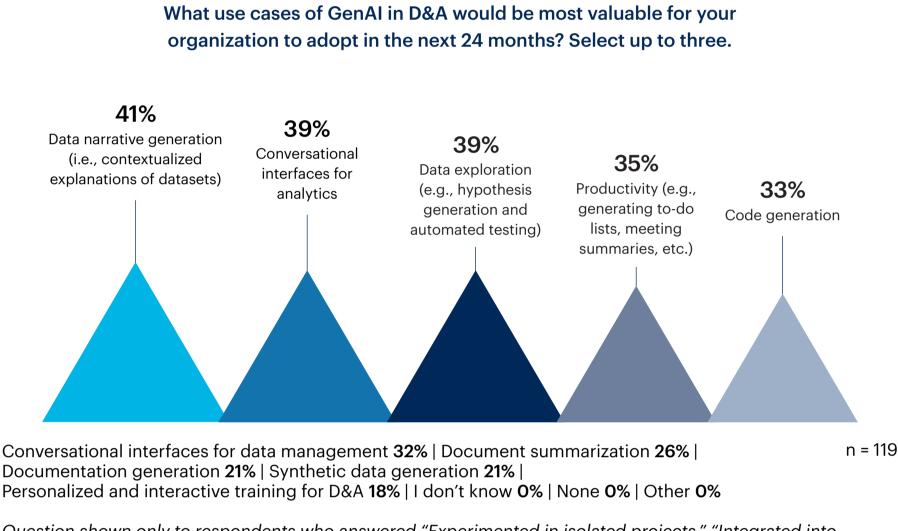


- C-suite, software industry, 1,000 - 5,000 employees

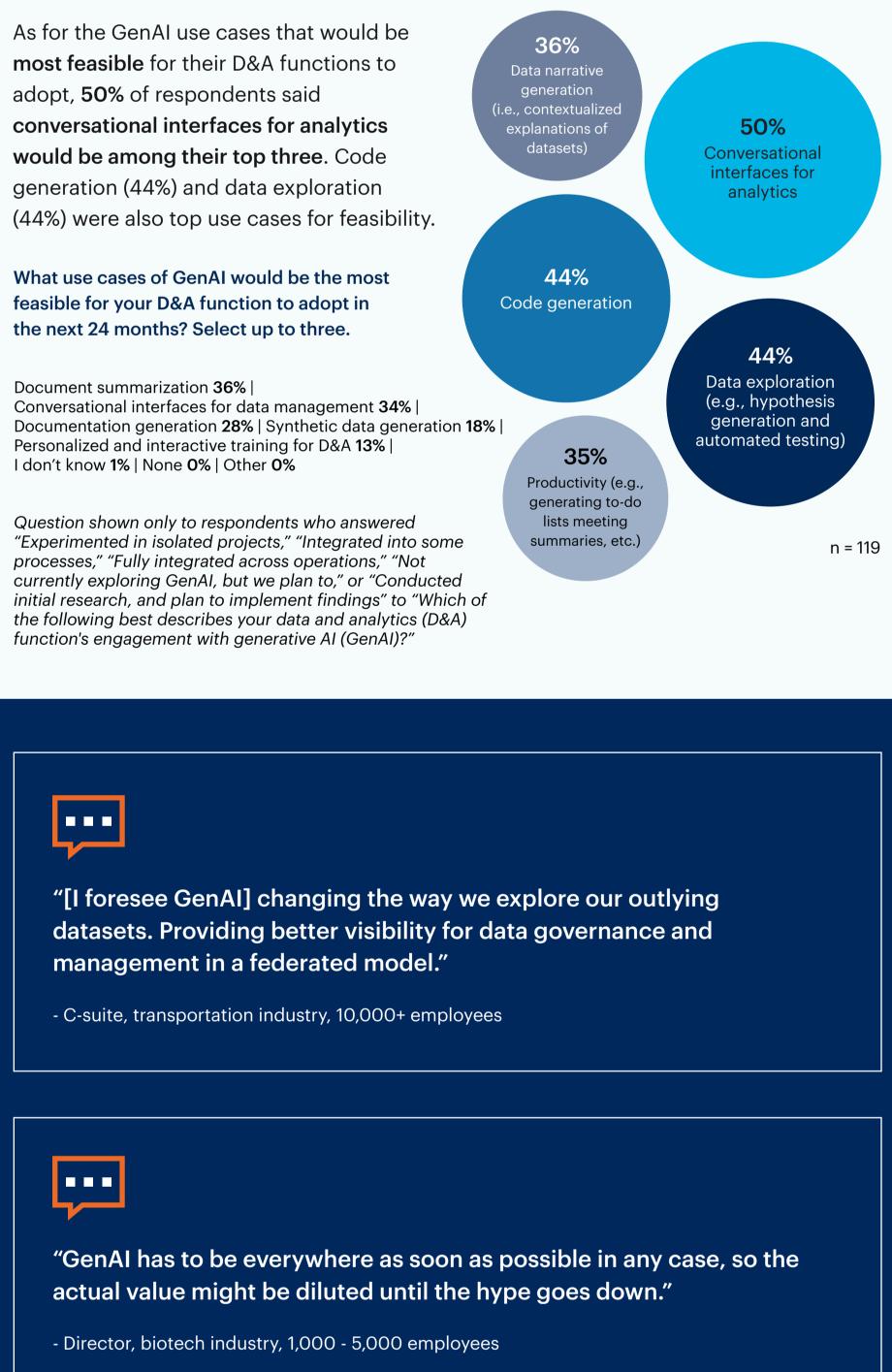
Question: What is the most significant impact you foresee GenAI having on your D&A function over the next 24 months?

Data narrative generation among top most valuable use cases to adopt in the next 24 months

Among respondents whose D&A functions are considering or using GenAI (n = 119), the top-selected use cases considered **most valuable** to adopt in the next 24 months are data narrative generation (41%), conversational interfaces for analytics (39%) and data exploration (39%).



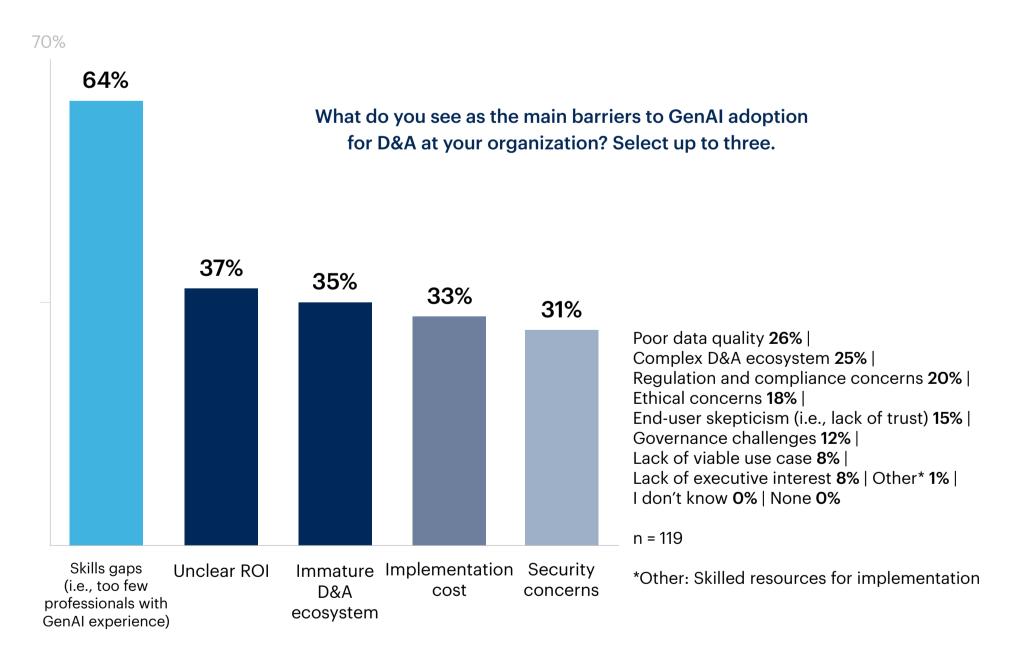
Question shown only to respondents who answered "Experimented in isolated projects," "Integrated into some processes," "Fully integrated across operations," "Not currently exploring GenAI, but we plan to," or "Conducted initial research, and plan to implement findings" to "Which of the following best describes your data and analytics (D&A) function's engagement with generative AI (GenAI)?"



Question: What is the most significant impact you foresee GenAI having on your D&A function over the next 24 months?

Majority of respondents see skills gaps as a main barrier to adoption of GenAl in D&A

64% of respondents who are considering or using GenAI for D&A (n = 116) see skills gaps as one of the main barriers to adoption. More than one-third of respondents say unclear ROI (37%) or immature D&A ecosystems (35%) are among their main barriers.



Question shown only to respondents who answered "Experimented in isolated projects," "Integrated into some processes," "Fully integrated across operations," "Not currently exploring GenAI, but we plan to," or "Conducted initial research, and plan to implement findings" to "Which of the following best describes your data and analytics (D&A) function's engagement with generative AI (GenAI)?"



"GenAI is rapidly coming and we have to be prepared. The biggest impact will be the disruption as GenAI displaces other technology and employees need to learn new skills to function in a GenAI environment."

- Director, educational services industry, 1,000 - 5,000 employees



"The increased use of AI in D&A has raised some challenges related to bias, accountability and transparency. We are seeing an entire shift in processes that we used to do differently before."

- Director, software industry, 10,000+ employees

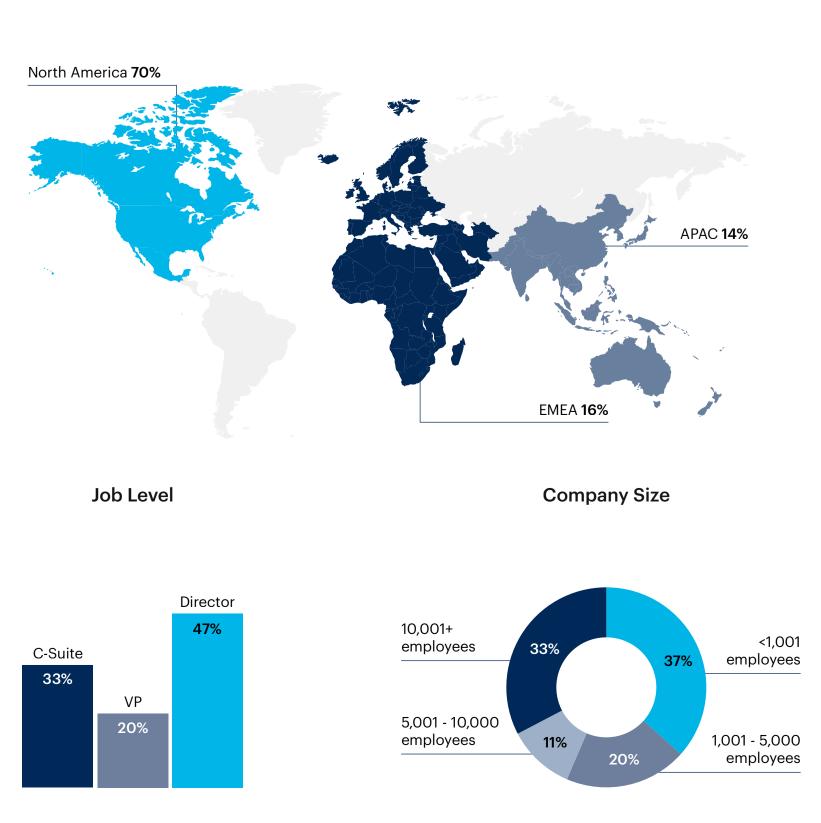
Question: What is the most significant impact you foresee GenAI having on your D&A function over the next 24 months?



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Respondent Breakdown



Region

Respondents: 132 IT and data and analytics leaders with knowledge about GenAI applications to D&A who own or collaborate on their organization's D&A strategy

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Source: Gartner Peer Community, Unleashing the Power of Generative AI for Data and Analytics survey