



## Gartner's Top 10 Data and Analytics Technology Trends

“To innovate their way beyond a post-COVID-19 world, data and analytics leaders require an ever-increasing velocity and scale of analysis in terms of processing and access to succeed in the face of unprecedented market shifts,” said Rita Sallam, distinguished research vice president at Gartner.

According to Gartner, Data and Analytics leaders should examine the following 10 data and analytics trends to accelerate renewal or recovery post COVID-19 pandemic:

**Trend 1:** Smarter, Faster, More Responsible AI - By the end of 2024, 75% of organizations will shift from piloting to operationalizing artificial intelligence (AI), driving a 5 times increase in streaming data and analytics infrastructures.

**Trend 2:** Decline of the Predefined Dashboards & Shift to Dynamic Data Stories - For example, augmented analytics or NLP, means that the most relevant insights will stream to each user based on their context, role or use.

**Trend 3:** Decision Intelligence - By 2023, more than 33% of large organizations will have analysts practicing decision intelligence, including decision modeling and processes in the context of business outcomes and behavior.

**Trend 4:** X Analytics - Gartner coined the term “X analytics” to be an umbrella term, where X is the data variable for a range of different structured and unstructured content such as text analytics, video analytics, audio analytics, etc. X analytics combined with AI will play a key role in overcoming the crisis in the future.

**Trend 5:** Augmented Data Management - Augmented data management uses ML and AI techniques to optimize and improve operations. Using the existing usage and workload data, an augmented engine can tune operations and optimize configuration, security and performance.

**Trend 6:** Cloud is a Given - By 2022, public cloud services will be essential for 90% of data and analytics innovation. Data and analytics leaders need to prioritize workloads that can exploit cloud capabilities and focus on cost optimization when moving to cloud.

**Trend 7:** Data and Analytics Worlds Collide - The collision of data and analytics will increase interaction and collaboration between historically separate data and analytics roles. This impacts not only the technologies and capabilities provided, but also the people and processes that support and use them.

**Trend 8:** Data Marketplaces and Exchanges - By 2022, Data marketplaces and exchanges provide single platforms to consolidate third-party data offerings and reduce costs for third-party data.

**Trend 9:** Blockchain in Data and Analytics - By 2021, Gartner estimates that most permissioned blockchain uses will be replaced by ledger DBMS products.

**Trend 10:** Relationships Form the Foundation of Data and Analytics Value - By 2023, graph technologies will facilitate rapid contextualization for decision making in 30% of organizations worldwide. It helps data and analytics leaders find unknown relationships in data and review data not easily analyzed with traditional analytics.