



# Key trends in AI, data, and cloud for 2025 and beyond


How the integration of AI, data, and cloud can lead to business transformation in 2025



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# Executive summary

2025 promises to be a year of major AI breakthroughs and data-driven transformation. Generative AI including large language models (LLMs) will dominate the technology landscape. There will be a shift in business focus from horizontal general-purpose AI applications to vertical industry-specific use cases.

Besides AI, 2025 will also be the year of data and cloud technologies. In this report, let's talk about 7 key trends in 2025 that will dominate the technology domain.



# Trend#1: AI-powered applications



In addition to Generative AI, 2025 will be the year of multimodal AI – or the emergence of AI-powered models that can integrate multiple data types – text, audio, and video – in a single application. Multimodal AI can power the evolution of more complex AI applications in industry domains like healthcare and financial services.

Additionally, 2025 will witness breakthroughs in the capabilities of Artificial General Intelligence (AGI), which can lead to more "intelligent" AI agents capable

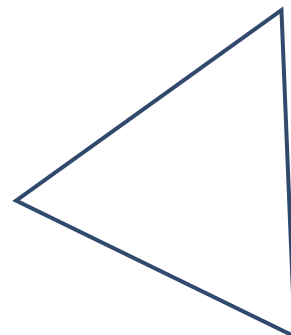
of autonomous decision-making. This can have a significant impact on industrial applications like robotics and supply chain management.

# Trend#2: The Trifacta impact of AI, data, and search

In 2025, we also expect the integration of AI, data, and search functionalities, thus creating a trifacta impact. With this integration, enterprises can maximize their business value to their customers. For instance, search tools (powered by Generative AI) can mine data from extensive datasets and provide actionable data-driven business insights.

By expanding their datasets, LLMs can improve the potential of AI applications. With this trifacta approach, enterprises can transform their search functions for potential applications in:

- Hyper-personalized customer experience
- Precise targeting of customer profiles
- New business opportunities





## Trend#3: Data as a product



As more enterprises realize the value of high-quality data for their AI initiatives, 2025 will emerge as the year when they focus on data quality. Using data augmentation and synthetic data, enterprises can increase data supply and address data privacy concerns.

In 2025, technology companies will also treat "data" as a product, and embed data into their software products or services. Data-powered solutions will emerge as a monetizing tool to democratize and repurpose data assets.



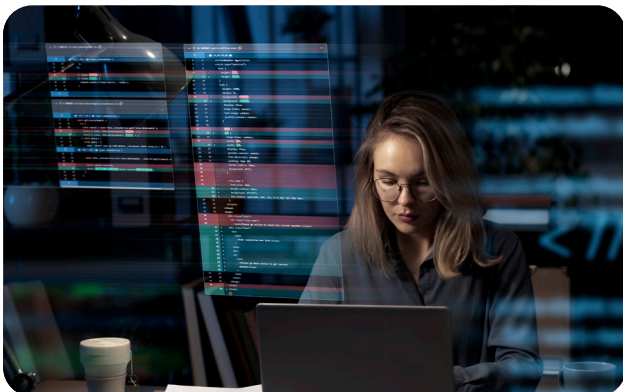
## Trend#4: Cloud migration

In 2025, organizations will further accelerate their cloud migration as part of their digital transformation process. Apart from investing in cloud-native systems, enterprises will invest in hybrid cloud platforms in 2025.

Onix predicts that in 2025, cloud providers will enhance their AI-powered products and services to facilitate the development and deployment of AI applications and solutions.



## Trend#5: Secure & Bias-free AI



Going ahead, enterprises across industries will prioritize data security and privacy as well as securing their AI systems. AI-powered cybersecurity will advance to tackle the growing volume and sophistication of cyberattacks.

Besides security, AI systems are expected to reduce bias through their models and algorithms. 2025 is also going to be the year of Explainable AI to make business decisions more transparent and understandable.



Enterprises are also drifting towards localizing their data security by using small language models (SLMs) and edge computing. With localized security, they can leverage AI-powered insights while securing their data.



## Trend#6: Human-AI collaboration

2025 is projected as the year when AI technology will enhance human capabilities instead of replacing them. With the successful **human-in-the-loop** approach, AI systems can collaborate with human resources while providing them with valuable oversight and feedback, and improving their decision-making capabilities.

Similarly, AI-powered automation will continue to enhance human potential and free them up for high-value tasks. Onix predicts that AI technology will automate repetitive tasks and provide opportunities for making valuable contributions.



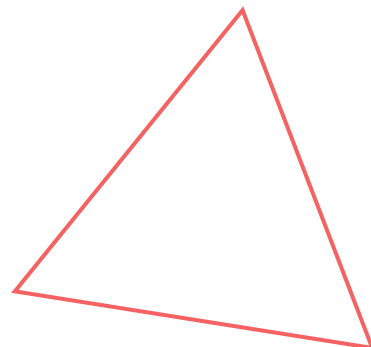
## Trend#7: AI-driven innovation



Going ahead, Onix forecasts the emergence of AI-powered innovations and business models in the form of new products or services. AI models can unlock opportunities in the field of hyper-personalization, predictive analytics, and automation.

Although currently in a nascent stage, AI-enabled hyper-personalization will evolve continually to improve the customer experience (CX). Similarly, AI-powered predictive analytics can forecast future

trends and make decisions by integrating real-time data streams, deep learning models, and context-sensitive systems.



# Challenges in GenAI adoption

Among the key challenges in GenAI adoption in the business domain, enterprises can tend to over-rely on GenAI tools, thus leading to a state of information saturation. Beyond 2025, enterprises using GenAI may deliver repetitive or predictable content or output. One effective way to address this challenge is through creative and forward-looking human thinking.

Enterprises also face challenges in “debugging” GenAI systems and training them to ‘unlearn’ mistakes. Through smarter AI model development, companies can deliver reliable AI systems that provide the right outcome.

## Looking ahead

In 2025, the technology domain will witness the trifecta integration of AI, data, and cloud technologies. If 2024 was the year when GenAI attracted the industry’s attention, 2025 could realize the tremendous potential of this technology and deliver business value.

As a cloud solution partner, **Onix** can help you migrate and modernize your existing applications on the cloud. Our AI and machine learning expertise can help you maximize your data potential. **Get in touch** with our experts today.



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