



Leveraging Gen AI for Enterprise Innovation with the LTIMindtree IBM watsonx CoE

The Promise

Open innovation is the driving force in the development of enterprise AI technology. It empowers organizations to leverage AI solutions to tackle critical business challenges. The LTIMindtree and IBM partnership is forged on the same principle of open innovation as a cornerstone.

The LTIMindtree and IBM Center of Excellence (CoE) is designed to deliver a comprehensive suite of services that will facilitate the easy adoption of AI-solution within enterprises. The collaboration between LTIMindtree and the robust IBM watsonx suite is fueled by LTIMindtree's established expertise in data management, machine learning model customization, and full-stack engineering.

The services encompass watsonx.data, watsonx.ai, and watsonx.governance, alongside other powerful AI assistants. The CoE empowers enterprises to seamlessly integrate AI, allowing them to foster positive changes and tackle complex enterprise problems.

Introducing IBM LTIMindtree CoE — Transforming Enterprises with Gen AI

LTIMindtree and IBM have forged a strategic partnership, a collaboration that is set to transform the way organizations operate. Together, we are leveraging AI and ML, streamlining with an open hybrid cloud to modernize businesses. LTIMindtree's clients will be able to migrate and modernize their business through IBM's proficient data engineering and machine learning capabilities and leverage the potential of AI. The LTIMindtree and IBM watsonx strategic partnership enables enterprises to commence their hybrid cloud journey with the very best in automation and integration. Organizations can automate and secure their processes and reduce their data cost substantially by moving their data to open-source data processing.

The LTIMindtree IBM watsonx CoE accelerates your business's AI journey by leveraging data, AI, automation, and engineering. It addresses all facets of your AI to streamline development and implementation. The components that fuel this collaboration are:



watsonx.data:
Scale your data anywhere.



watsonx.ai:
Unleash the power of Gen AI.



watsonx.governance:
Ensure secure and
transparent AI
implementations.

How LTIMindtree is Leveraging watsonx.data?

The LTIMindtree-IBM CoE will establish an enterprise-wide data modernization and warehouse augmentation service, leveraging the potential of watsonx.data. This solution offers data warehouse consumers a framework and tools that enhance the performance of their existing data functionalities. The CoE harnesses LTIMindtree's expertise in crafting custom solutions, facilitating successful outcomes for the enterprise.

watsonx.data Powers Cloud Data Warehouse Augmentation Solution



Organizations are shifting their data infrastructure to modern cloud-based data platforms, but the high cost of data processing is a significant challenge. They are in search of solutions that can help them optimize their technology choices and reduce costs.



LTIMindtree, powered by watsonx.data, is an accelerator that would focus on augmenting cloud data warehouses by replacing the costly proprietary data processing pipelines with cost-effective open-source data processing pipelines powered by watsonx.data.



Our solution automates the conversion of complex data transformation workloads running on "costly proprietary data processing pipelines." It replaces them with an open-source Apache Spark engine powered by watsonx.data. We are using the open lakehouse architecture of watsonx.data to store the processed data in Iceberg format, which cloud data platforms can then consume.



This ensures that organizations' choices regarding their cloud platforms don't change, the front-end consumption patterns don't change, and there is no end-user impact. However, the solution ensures that data processing can now run faster and more cost-effectively.

Migrate Legacy Hadoop Workloads onto watsonx.data

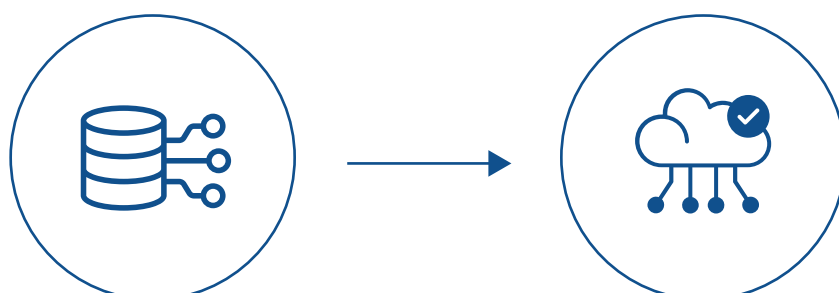
Many organizations built their data platform using legacy Hadoop architecture. However, they need a platform that helps them control the technologies used and give them the performance benefits of modernization.

LTIMindtree solutions leverage watsonx.data to help organizations to migrate to an open lakehouse architecture. With this technology, data is stored in open formats such as Parquet and Iceberg and processed using open engines such as Spark and Presto/Presto 2.0 for processing the data and serving it for downstream consumption.

Mainframe Data Made Readily Accessible by IBM Data Gate for watsonx

Organizations process massive amounts of transactional data on mainframes. LTIMindtree can leverage IBM Data Gate for watsonx, which helps organizations synchronize their mainframe data to watsonx.data making it available for analytics and AI.

IBM watsonx.data uses open storage formats like Parquet and Iceberg, which can be consumed by any modern data or analytics platform. Unlock mainframe data for analytics and AI with IBM Data Gate for watsonx.



How LTIMindtree is Leveraging watsonx.ai?

The LTIMindtree IBM CoE is designed to offer a range of services that will modernize full-stack applications across a broad spectrum of domain-specific use cases. It will also include the modernization of the mainframe use case application. LTIMindtree's expertise in full-stack engineering alongside the high-performing IBM watsonx.ai Studio will empower enterprises to modernize their endeavors by facilitating training, validation, tuning, and deployment of AI models.

Here are the services offered by LTIMindtree IBM CoE:



Strategy and consulting:
Consultation for use case prioritization and validation, business process study, and Gen AI Strategy roadmap.



Business enablement:
Service includes a review of business functions and automation prospects.



Mainframe application modernization: Consulting service that leverages IBM's tools and AI capabilities to assess, analyze, transform, and operate data platforms.



LTIMindtree's full-stack engineering proficiency alongside IBM watsonx.ai facilitates seamless modernization. Services include generative AI-led software development, application transformation and modernization, chatbots, use case experimentation, Search, Classify, Summarize, Generate, and IT Services assistance.

Next-gen Assistant for Crafting Product Content

Organizations that list their products in eCommerce platforms and D2C websites must continuously update and optimize their product content to ensure visibility and searchability to the end-user on the first page. Creating relevant content is always a challenge, as reports suggest that 90% of customers only purchase from what they see on the first page of search results.

LTIMindtree introduces a next-generation content creator tool for enhancing Product Description Pages (PDPs) and associated text content that can be distributed on e-commerce, Direct-to-Consumer (D2C) platforms, or marketing/campaign purposes. The solution integrates advanced offerings from IBM such as watsonx.ai, watsonx.data, Watson Discovery, and cloud services to generate the content. It extracts ranks and content from various products and conducts comprehensive analysis.

Additionally, the solution identifies key trends and leverages generative AI to craft impactful and brand-aligned content which are keyword-rich, SEO-optimized, and consistent. The solution not only generates content but also helps to enhance their relevance, thereby improving search engine visibility and user engagement.



Revolutionizing Manufacturing Asset Management with watsonx.ai and watsonx Assistant for Work Order Management

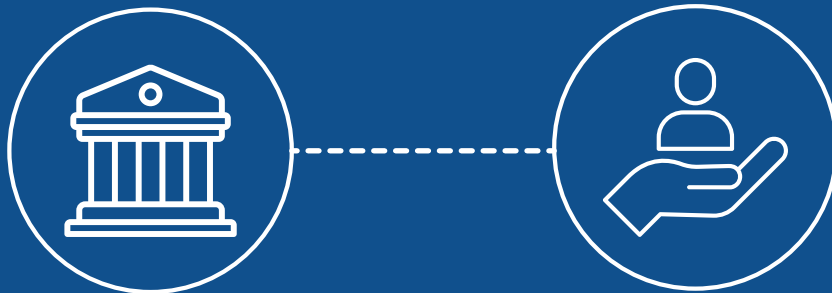
Manufacturing units that have a lot of operational machinery and equipment deploy asset management systems to maintain high-reliability levels in plants. Maintenance planners are tasked with analyzing the cause of any reported failure and time-bound implementation of the work order.

LTIMindtree's Asset Management CoE, in collaboration with IBM Ecosystem Engineering GSI Lab and IBM's watsonx team, has developed a solution that aims to make the corrective work order intelligent. By leveraging OEM documentation and historical work order data, this solution is designed to improve the maintenance team's efficiency and eliminate the need for manual speculation in fixing maintenance issues, thereby valuing their expertise and time.

Banking and Financial Services Customers Get Personalized Assistance

Banks and financial institutions need to update all users (internal and external), such as clients, analysts, investors, media persons, and partners, with crucial information. Conventional bots follow a predefined set of algorithmic responses, which may not always be applicable and relevant to the user.

Generative AI technology facilitates relevant interactions that are conversational and informative. LTIMindtree's financial assistant services leverage IBM watsonx.ai, Watson Discovery, and watsonx Assistant to build an interactive platform for such institutions to improve customer service and productivity, which can be changed, upgraded, adapted, and made responsive to optimize customer satisfaction.



Upgrading Mainframe with watsonx Code Assistant for IBM Z

LTIMindtree, powered by IBM, offers an all-around, mainframe modernization service that delivers end-to-end solutions spanning from assessment to transformation to operations leveraging IBM's generative AI services tools such as Application Discovery and Delivery Intelligence (ADDI). The watsonx Code Assistant for Z (WCA4Z) allows to refactor and automate codes in the discovery and assessment process. It also enables developers to change the code from COBOL to Java selectively. Furthermore, the watsonx.ai Gen AI platform facilitates code generation activities such as documentation and test case generation.

LTIMindtree's 20+ years of expertise in mainframe applications, skilled manpower, modern approach, and well-planned processes leveraged by IBM's generative AI suite help to speed up deployment, reduce time to market, provide superior performance and results, and reduce modernization complexity, allowing large-scale modernization programs to be simplified.

How LTIMindtree is Leveraging watsonx.governance?

The LTIMindtree IBM watsonx CoE will form a strategic alliance between the watsonx.governance and Canvas.ai to enhance its offering. This integration will empower organizations to seamlessly incorporate AI governance frameworks throughout the entire lifecycle of AI initiatives. The unification of these platforms will equip users with the processes and systems needed to steer through the complexities of the regulatory landscape. This will ensure compliance with the enterprise's ethical code and promote responsible AI implementation.

Governance for Generative AI Solutions by Integrating watsonx.governance with Canvas.ai



The LTIMindtree Canvas.ai platform facilitates quick releases of complex use cases by leveraging ready-to-use navigator apps and reusable kits. The integration of LTIMindtree canvas.ai and IBM's watsonx.governance offers a dynamic generative AI solution for users. This solution boasts of model evaluation, 2-way moderation, and model lifecycle management abilities of watsonx.governance.



The canvas.ai Data Hub Foundation allows enterprise sharing of embedded data, which helps to save costs significantly. The canvas.ai and watsonx.governance collaboration provides a full-fledged generative AI experience for enterprise customers, which is a unique offering, giving it a competitive advantage. The lightning-fast deployment and assured governance add to the venture's appeal.

Conclusion

The LTIMindtree IBM watsonx CoE will assume an important role in the expansion of Gen AI undertakings of its clients. This will be achieved through the tactical deployment of IBM's watsonx platform's powerful suite of AI tools and functionalities such as AI assistants, machine learning algorithms, speech recognition capabilities, natural language processing techniques, and conversational AI technologies.

The strategic partnership and implementation of these tools will empower your organization with extensive AI and data tools, which will ultimately culminate in an improved end-user experience and empower businesses to achieve unparalleled success.



Email us at info@ltimindtree.com to know more



LTIMindtree is a global technology consulting and digital solutions company that enables enterprises across industries to reimagine business models, accelerate innovation, and maximize growth by harnessing digital technologies. As a digital transformation partner to more than 700 clients, LTIMindtree brings extensive domain and technology expertise to help drive superior competitive differentiation, customer experiences, and business outcomes in a converging world. Powered by 81,000+ talented and entrepreneurial professionals across more than 30 countries, LTIMindtree — a Larsen & Toubro Group company — combines the industry-acclaimed strengths of erstwhile Larsen and Toubro Infotech and Mindtree in solving the most complex business challenges and delivering transformation at scale. For more information, please visit www.ltimindtree.com.