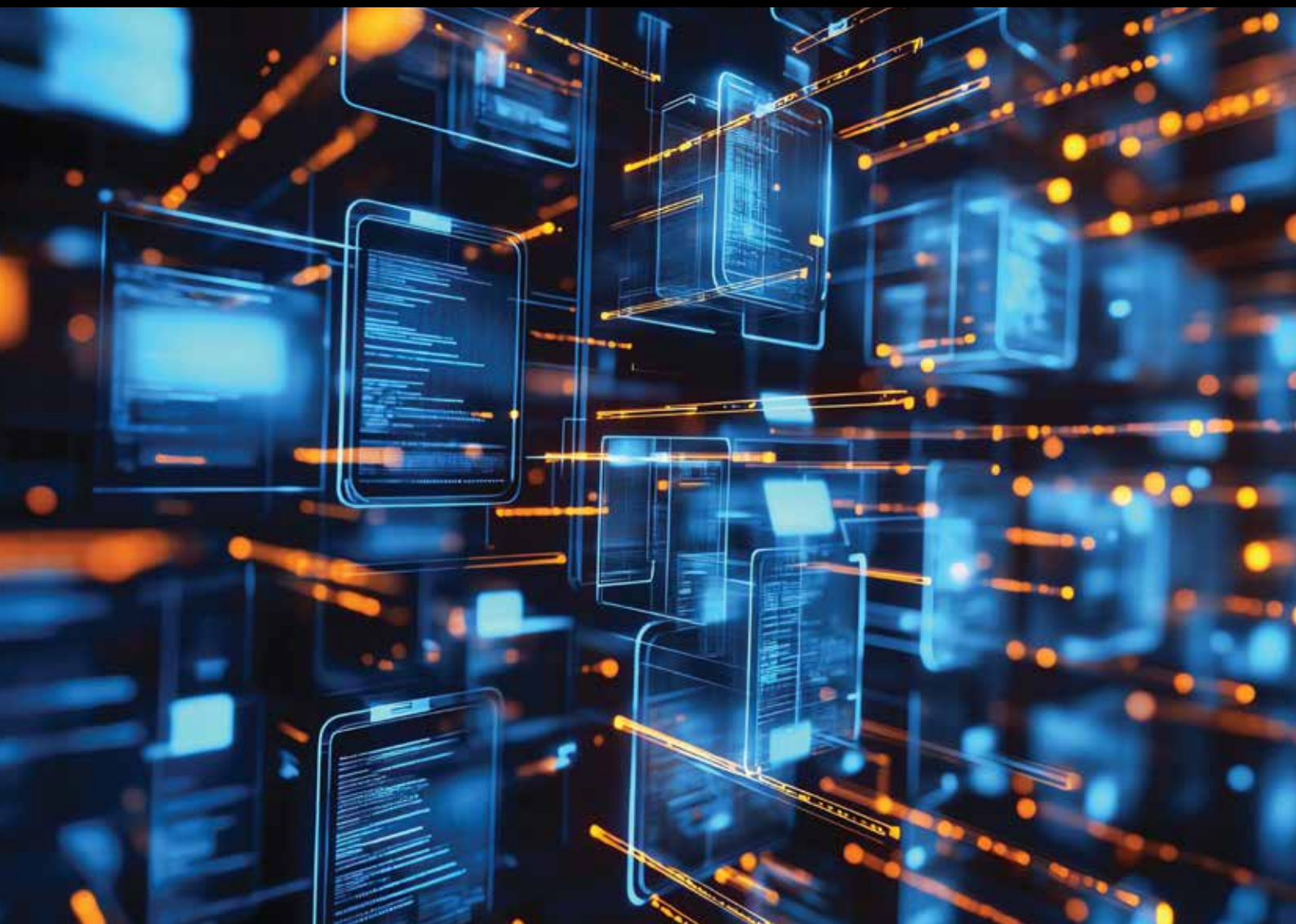
QUARTZ

TATA

Intelligent Insights



Challenge:

In today's world, businesses are heavily reliant on operational as well as historic data for critical decision making and strategic planning. An inability to co-relate real time news/trends along with the day to day business operations poses a key challenge to firms in responding with agility to these developments.

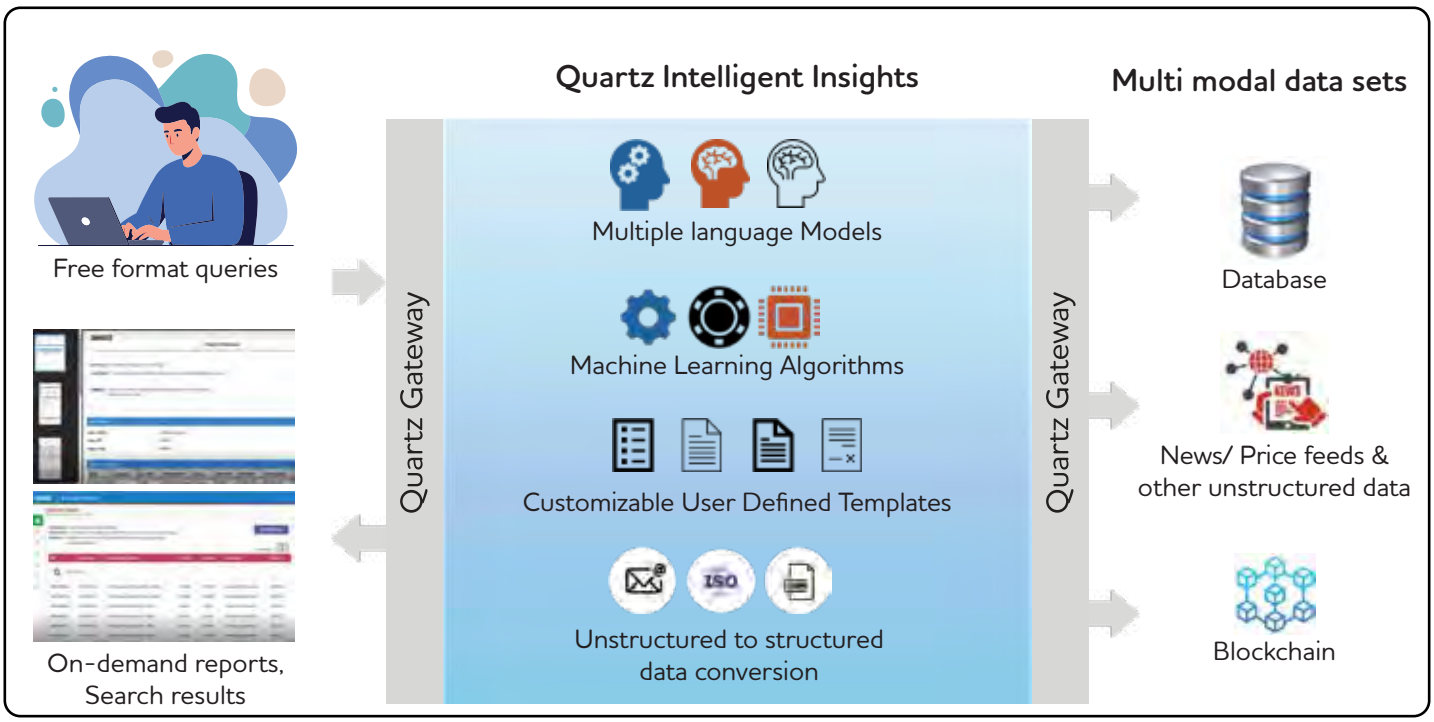
Users also face challenges due to limitations with respect to the report format, extent of data coverage and an inability to personalize reports based on user preferences. In many cases, valuable data is often hidden in emails, unstructured formats, or external sources, limiting visibility and slowing down decision making.

Solution:

The Intelligent Insights solution is designed to address precisely these challenges. The Generative AI based solution allows for reports to be created using multimodal data sets that includes data from the conventional database, blockchain ledgers as well as unstructured data from public sources, providing businesses with powerful insights that leverages real time information. With this powerful capability, firms across business domains can benefit in multiple ways - for example, in enabling superior investment advisory services by allowing an investment decision to be taken based on a comparative analysis on global sectoral performance, or through ensuring better mitigation of customer onboarding risks with instant access to adverse media reports on an entity, automating process flows based on email content etc.

The solution enables hyper personalization, by giving control to the user in defining user defined report templates, configuring the data display on screen, as well as the report format. The solution includes a built-in intelligent search engine that can be triggered from core systems, enabling users to access business information effortlessly. It also features a web crawler for real-time data extraction and sentiment analysis, enriching reports with business critical external perspectives. Email content is automatically transformed into standardized formats such as JSON and ISO, or into reports, thereby driving digital transformation through process automation and streamlined workflows.

Quartz combines multiple AI frameworks and models including Large and Small Language Models, along with ML algorithms and neural networks in order to ensure efficiencies in infrastructure usage while delivering optimal results.



Benefits:

- On demand reports accessible using simple Natural language query
- Ability to offer better advisory services by combining transactional data with data published in news feeds, analyst reports and other sources
- Higher operational efficiencies and productivity gains using personalized reporting templates
- Workflow automation directly from Email/PDF/Unstructured content for enhanced business agility

Quartz Advantage:

- Enables reporting across business domains, diverse data sets
- Seamless integration with existing systems using Quartz Gateway
- Cost effective, through the use of open-source tools

About Quartz

Quartz offers innovation-led solutions that combine the benefits of DLT and AI. Built on the premise of 'trusted intelligence', the solution addresses business challenges across the entire value chain including development, integration, and governance of ecosystems for various industries including Financial Services, Banking, Supply Chain, Energy & Utilities and eGovernance. Backed by awards from Financial Technology Forum (Best Fraud Prevention Solution), Asia Pacific Stevie Awards (Best Machine First Sanctions Screening), Juniper Research (Gold Winner for Digital Identity Innovation), the Asian Banker (Best Fraud Prevention Technology Implementation), Financial Technology Forum (Best New Post Trade Solution of the Year), Asset Servicing Times (Outstanding Innovation Award) and recognition from Analysts (ranked #1 Best Performing Fraud Management Solution by IBS Intelligence) Quartz can help organizations operate at the forefront of technology innovation.

To know more about Quartz, please write to us at tcs.quartz@tcs.com, or visit our website https://www.tcs.com/what-we-do/products-platforms/quartz

About Tata Consultancy Services Ltd (TCS)

Tata Consultancy Services (TCS) (BSE: 532540, NSE: TCS) is a digital transformation and technology partner of choice for industry-leading organizations worldwide. Since its inception in 1968, TCS has upheld the highest standards of innovation, engineering excellence and customer service.

Rooted in the heritage of the Tata Group, TCS is focused on creating long term value for its clients, its investors, its employees, and the community at large. With a highly skilled workforce of over 607,000 consultants in 55 countries and 180 service delivery centres across the world, the company has been recognized as a top employer in six continents. With the ability to rapidly apply and scale new technologies, the company has built long term partnerships with its clients – helping them emerge as perpetually adaptive enterprises. Many of these relationships have endured into decades and navigated every technology cycle, from mainframes in the 1970s to Artificial Intelligence today.

TCS sponsors 15 of the world's most prestigious marathons and endurance events, including TCS New York City Marathon, TCS London Marathon and TCS Sydney Marathon with a focus on promoting health, sustainability, and community empowerment. TCS generated consolidated revenues of US $29 billion in the fiscal year ended March 31, 2024. For more information, visit www.tcs.com

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