GFT leverages Google Cloud to simplify AI deployments at scale in manufacturing, reducing dependencies on data science experts

GFT drives factory-floor digital transformation with support for new Google Cloud industry-specific solutions

New York, 5 May, 2022 – Recruiting data scientists is one of the greatest challenges in the current labor market: analysts say that there was a [shortage of 250,000 data scientists globally](#) even in 2020. The situation has only exacerbated since then.

AI solutions have the potential to significantly **boost productivity in manufacturing**. Usually, skilled data scientists are key for AI projects to be successful. Google Cloud has now introduced new purpose-built solutions that can be used by manufacturing engineers without requiring the help of specialized data scientists or additional integration code in order to scale digital transformation pilots into production. This will **facilitate the digital transformation** efforts in the manufacturing segment. As a Google Cloud Global Partner, **GFT has tested and implemented** these solutions in **Top 10 automotive and manufacturing leaders**.

"These solutions will democratize access to data on the manufacturing floor. They will generate more competitiveness for industries, and manufacturing engineers will gain the opportunity to acquire AI-based skill sets," says Marco Santos, President of GFT USA and Latin America. "Our first-hand experience tells us manufacturers can expect a major boost in their manufacturing floor."

"Transforming factory-floor operations with data and analytics is hugely important to manufacturers today," said Charlie Sheridan, Technical Director, Industry Solutions, Manufacturing, Google Cloud. "We're thrilled to work with partners like GFT to extend the outreach of our core technology and provide customers with the foundational technologies needed to solve business challenges and scale smart factory implementations."

The new Google Cloud solutions supported by GFT include:

- **Manufacturing Data Engine** is an end-to-end solution that processes, contextualizes, and stores factory data on Google Cloud's market-leading data platform. It provides a configurable and customizable blueprint for the ingestion, transformation, storage, and access to factory data. It integrates key Google Cloud products, including Cloud Dataflow, PubSub, BigQuery, Cloud Storage, Looker, Vertex AI, Apigee, and more, into a manufacturing-specific solution.
- **Manufacturing Connect** is a factory edge platform co-developed with Litmus Automation that quickly connects to, and streams data from, nearly any manufacturing asset and industrial system to Google Cloud, based on an extensive library of more than 250 machine protocols. Deep integration with the Manufacturing Data Engine unlocks rapid data intake into Google Cloud for processing machine and sensor data. The ability to deploy containerized applications and ML models to the edge enables new dimensions of use cases.

The exposed data can be further applied to a growing set of industry-specific use cases, such as:

- **Manufacturing analytics & insights**, which helps manufacturers quickly create custom dashboards to visualize key data—from factory KPIs such as Overall Equipment Effectiveness (OEE), to individual machine sensor data. Integrated with the Manufacturing Data Engine, engineers and plant managers can automatically set up new machines and factories, enabling standardized dashboards, KPIs, and on-demand drill-downs into the data to uncover new insights opportunities throughout the factory. These can then be shared easily across the enterprise and with partners.
- **Machine-level anomaly detection**, which helps manufacturers identify anomalies as they occur and provides alerts—leveraging Google Cloud's Time Series Insights API—on real-time machine and sensor data such as noise, vibration, or temperature.
- **Predictive maintenance**, which enables manufacturers to anticipate an asset's need for service, helping reduce downtime and maintenance cost. Manufacturers can leverage ML models and high-accuracy AI optimizations that are deployable in weeks.

With Google's new solutions, it is possible to collect data, normalize it, analyze it, then use it for strategic decisions providing factory-floor engineers with the tools to be self-sufficient. This is also an opportunity to introduce more engineers to AI-based engineering.

GFT has been collaborating with Google Cloud for many years and won the prestigious **'Google Cloud 2019 EMEA Breakthrough Partner of the Year'** award. Today, the company has 340+ experienced engineers and architects, 200+ certifications and 94 current engagements with Google Cloud all over the world.

To learn more about Google Cloud's new manufacturing solutions, please visit this page or join for panel discussions at Google Cloud's Manufacturer Spotlight event.

About GFT – Shaping the future of digital business

As a pioneer for digital transformation GFT develops sustainable solutions across new technologies – from cloud engineering and artificial intelligence to blockchain/DLT.

With its deep technological expertise, strong partnerships, and comprehensive market know-how GFT offers advice to the financial and insurance sectors, as well as in the manufacturing industry. Through the intelligent use of IT solutions GFT increases productivity and creates added value for clients. Companies gain easy and safe access to scalable IT-applications and innovative business models.

Founded in 1987 and located in more than 15 markets to ensure proximity to clients, the GFT team consists of over 9,000 determined talents. GFT provides them with career opportunities in all areas of software engineering and innovation. The GFT Technologies SE share is listed in the SDAX index of the German Stock Exchange (ticker: GFT-XE).

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