

SUCCESS STORY

U.S. car manufacturer boosts innovation with AI platform

AI platform harnesses power of data



A strategic platform for
data-driven manufacturing



Enables real-time visual
inspection



Promotes global
collaboration and innovation

ARTIFICIAL INTELLIGENCE



THE CHALLENGE

Address the Challenge of Data Management

- U.S. car manufacturer advanced driver assistance capabilities grew so did the volume and complexity of its data required to train and refine its machine learning ML models. The company needed a solution that could efficiently manage, process and analyse vast, petabyte-sized (1000 terabytes) datasets.
- The company knew that, as a data-driven manufacturer, it needed a strategic platform to manage data as a factor of production. The right AI platform would serve as more than a data storage solution – it would also enable the vehicle manufacturer's data scientists to collaborate, experiment and innovate.

THE ENGAGEMENT

Bringing an AI Vision to Life

- The project centered on the automotive manufacturer's AI visual data management platform. GFT and the company built a bespoke platform for managing image and video data for ML projects, while also managing indexes of data to streamline ML engineering workflows and ensure that they are more efficient.
- To optimise performance and cost, the company's data platform harnesses the power of multiple Google Cloud Platform services. Examples are Cloud Run, Vertex AI, Big Query, and Cloud Storage. Additionally, it uses the vehicle manufacturer's high-performance computing platform.

THE BENEFIT

A Secure, Versatile Platform that Drives AI Uptake

- GFT built a prototype platform within seven months and over the subsequent two months, the platform was scaled to production capacity. Using its proven global delivery model, GFT continuously enriched product functionality in response to feedback.
- The platform places data at the heart of the company's manufacturing process. Initially commissioned to power the ADAS, it is now evaluating many new use cases, including AI visual inspection for manufacturing, vehicle quality assurance and servicing and warranty management. As a cloud-native repository, the data platform has solved the company's challenge of decentralised information.