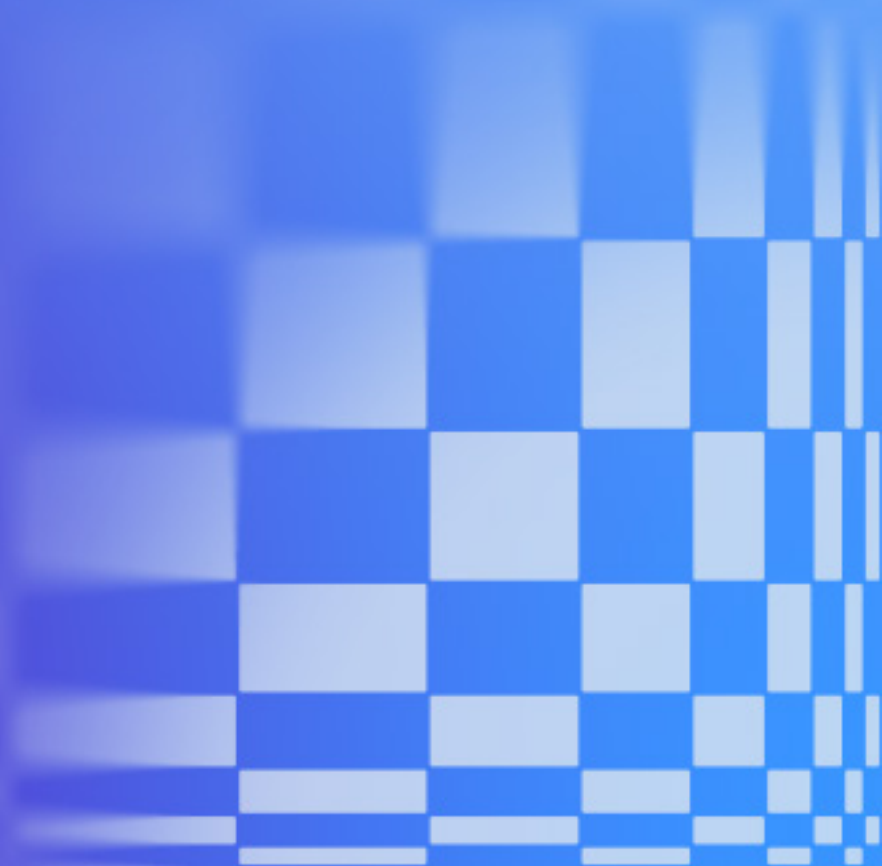# HCLTech | Supercharging Progress™

Graviton

Accelerating data modernization for an intuitive, connected car experience

What is Graviton?

Graviton is a solution framework by HCLTech designed for accelerating modern data platform implementation. Using the solution, enterprises can efficiently build, deploy, monitor and maintain an agile and cost-efficient modern data platform.

Graviton enables the implementation of modern data platforms using polyglot data technologies, open-source data frameworks and cloud-native services. It facilitates the development and delivery of optimal data products and efficient management of data product lifecycle from development to production.

Key Features

Graviton is a cloud-based solution that enables accelerated monetization of data collected over time. It provides the critical ability to gain insights into the data and quickly develop relevant use cases targeting various stakeholders. Key features include:

- Collective power of HCLTech IPs (AION, DB Assist), hyperscaler capabilities (AWS/GCP/Azure) and niche partner products (Denodo, Snowflake)
- Big data landing zone with combination of binary sensor data and enterprise data sets
- Migration to in-memory processing engine to stage for advanced analytics
- Sensor data ingestion from the vehicles and predictive maintenance analytics supporting auto services
- Advanced visualizations for business consumption to improve service performance and reduce operational costs

Benefits

Graviton provides a unified view of both enterprise and third-party data across devices and systems, empowering teams across the organization to respond to market needs quickly while maximizing returns.

- **End-to-end monetization platform**: Comprehensive platform combining a data warehouse/data lake and prebuilt data pipelines with deployments
- **Real-time data**: Support for real-time data collection and usage across in-vehicle and cloud-based analysis
- **Distributed deployment**: Support for models running across vehicle, edge and cloud-based deployment
- **Data governance**: Mechanisms to provide data to external parties through secure interfaces
- **Collaborative workspace**: Ability to collaborate and share insights using a seamless user experience enabled by a unified data workspace

Success Stories

- **Predictive Maintenance based on Real-time Predictions**: A global automotive leader leveraged Graviton for deploying an advanced AWS-based IoT application and complete data architecture with streaming analytics using AWS Kinesis.

- **Trip Optimizer Analytics**: By using Graviton, the team at HCLTech created a customer-facing Predix web application providing insights on their fuel usages, track characteristics and multiple KPIs.

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