

Data engineering and AI

Transformation and data modernization for product development operations



Leveraging **BIG DATA** to drive business

With the recent explosion of intelligent devices, a vast ocean of data is now available. The business has to modernize its capabilities to leverage this newfound insight and use it to transform landscapes by incorporating multifold advancements such as data science and AI, which can be both easy yet rewarding when done correctly.

Our services help organizations create a future-proof data strategy and modernize the data to build a hybrid data platform to help them compete in an increasingly dynamic environment. HCL's AI services provide enterprises with real-time insights and analytics to address technology challenges. Enabling organizations to harness data and analytics intelligence to manage information better, automate processes, and create intelligent business operations

Is your firm facing any of these **CHALLENGES?**



Shift from batch to real-time data processing



Shift from products to platform



Explosion of data



Scaling up across organizations



Edge computing



Data cataloging and governance



Lack of data and AI resources



Workflow automation and optimization

How we **SOLVE** these challenges

Our team of data engineers and AI experts will help you overcome any challenge on this journey towards growth!

Data engineering and AI service portfolio



Consulting services and DE pathways

Define end-to-end data strategy for your data transformation journey

- Data modernization roadmap
- Data engineering platform selection
- Digital transformation discovery workshop



Data migration and modernization

Modernize to next generation hybrid modern data landscape with HCLs connected data platform

- Cloud data engineering services
- Modern data pipelines
- Cloud data migration services
- Hadoop data lakes
- Datawarehouse and ETL



Data marketplace and governance

Enable a collaborative ecosystem to facilitate data democratization in your organization

- Data xchange platform
- Data API
- Data virtualization
- Data cataloging
- Data quality



Data operations

Experience automation in your data management lifecycle to become a data driven enterprise

- Data platform maintenance
- Data observability platform
- DataOps

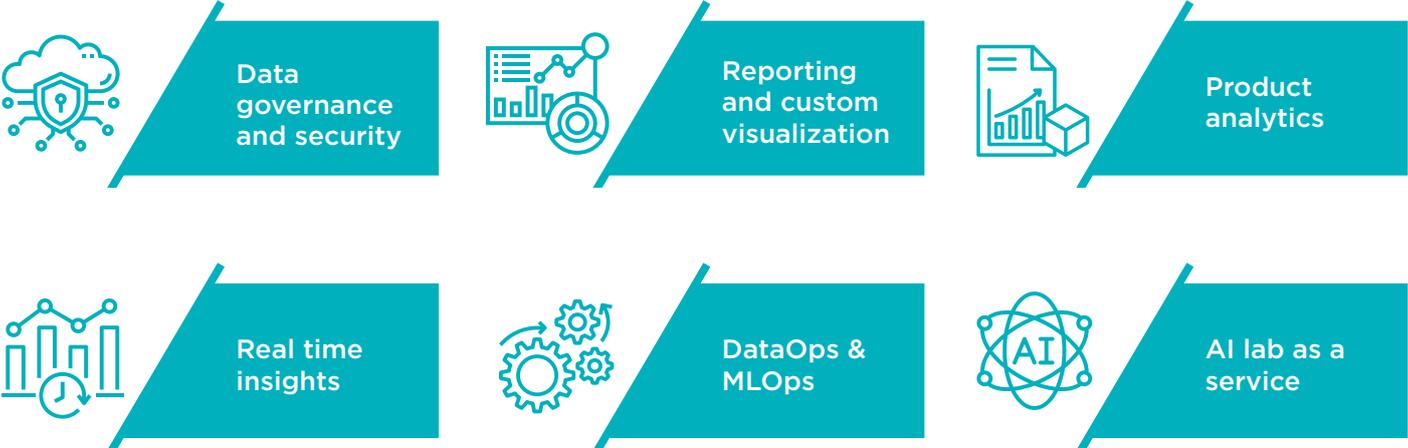


AI services

Derive intelligent insights enabled by AI/ML, data visualization & augmented analytics

- ML & NLP Services
- MLOps
- AutoML
- Deep Learning
- Augmented analytics
- Data visualization, BI/Reporting

Solution domains



Strategic PARTNERS



We help **ACCELERATE** your transformation journey

HCL offers a full suite of data solutions that accelerate the process of modernizing your organization's databases, helping them become more valuable. HCL helps companies build their own "data cloud" - which can be scaled easily and cost-efficiently without compromising on performance or diversity in its workloads.

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|---|--|
|  <p>Comprehensive expertise</p> | <ul style="list-style-type: none">• Expertise across various digital capabilities: IoT, Security, Cloud, DevSecOps, Connectivity, AR/VR, Analytics, Automation• Digital Technologies: Modern Datawarehouse, Cloud/IoT platforms, microservices development, Data Operations, DevSecOps• 500+ trained cloud practitioners |
|  <p>Strategic relationships</p> | <ul style="list-style-type: none">• 25+ technology partners• 150+ global customers• Ecosystem partners including AWS, GCP, Azure |
|  <p>Pre-built assets</p> | <ul style="list-style-type: none">• AI/ML models and reference frameworks• AI and data engineering accelerators including Spotter DQV, AI.ON, Data Genie, Connected Data Platform, Actian• Labs: NEXT.ai Lab, IoT Collab, Cognitive Intelligence Lab |
|  <p>Global footprint</p> | <ul style="list-style-type: none">• 40+ years of engineering R&D product development experience• 1500+ patents filed and 26+ Global delivery centers• 40+ clients across ISV, Medical, Auto, Retail, Telecom verticals |

HCL applies an arsenal of skills, experience, assets, best practices, and partnerships to overcome the AI challenges and significantly accelerate the AI transformation. With prebuilt AI reference models, data accelerators, and co-creation of AI laboratories, HCL helps accelerate product development operations and time to value.

Connected Data Platform that onboards industry specific use cases with HCL's Innovative Frameworks & Niche Partner products. Benefits:

- Full visibility and control on cost
- 160+ use cases across 8 industries
- Architectures for 3 major public clouds

AI.ON comprising AutoML and Data Science to offer customers a robust platform for applying ML to real-world problems. Benefits:

- Real-time insights provide the ability to respond faster (55% increased rate)
- 100% automation of analytics pipeline

Spotter DQV

Data Quality Monitoring solution from HCL that can help to get insights about the data quality issues upfront. Benefits:

- 70% reduction in Operations efforts
- 85% improvement in Data quality

Data Genie

Data synthesis acceleration tool for generating variety of data -images, video, time-series, tabular. Benefits:

- Supports structured & unstructured data.

Actian

Modern Hybrid Fastest Datawarehouse

Benefits:

- Bundled with 200+ connectors
- Providing 50% more cost effectiveness than snowflake

Automated Pipelines & Cloud First Architecture

- Transition from Hadoop to Cloud Data Lakes
- 100% automation in data pipelines

Clients **VALUE** delivered



HCL deployed DE & ML cloud native data automation platform for telemetry & analytics for a leading global provider of broadband communications access systems and software to arrest high customer attrition and on-boarding time, and to facilitate a broad partner eco system with monetizable APIs and implementation of faster ML use cases.

Key value delivered:

- Accelerated customer on-boarding by 80%; Improved time to market by reducing development cycle time by 50%
- Easier application management by reducing application assessment effort by 60% and accelerating deployment by 80%
- Improved CSAT and reduced churn by 35%; Increased platform scale to 20TB of data handling per day



HCL drove operational excellence by implementing connected factory for a global industry leading hi-tech electronic devices manufacturer to enable collecting, monitoring, processing and analyzing data from assembly line for improvements.

Key value delivered:

- Improved throughput of streaming batches by 65%
- Rationalized cost by 30%
- Improved assembly line efficiencies, reduced recalls and increased CSAT



HCL deployed demand and workload forecast generating solution for a global leading tech giant by using ML, AI and modern data platform to improve data quality, assessment, insights and reporting issues.

Key value delivered:

- Improved Ops Management by increasing demand and workload forecast accuracy by 40%
- Added 30+ KPIs in the process to Improved data quality assessment and reporting
- Created a self service scalable unified schema to deliver forecasting across businesses at scale

RECOGNITIONS

No 1 service provider @
Forrester Wave for
specialised insights
services, 2020



FORRESTER

Leader in applied
AI and advanced
analytics services,
intelligent automation
services 2019



IDC, AVASANT

Leader in business
analytics consulting
& SI services, 2020



IDC

Leader and
Number-1 in data
management & insights,
data analytics 2019



ZINNOV

Breakthrough
Partner of the
Year, 2019



GOOGLE

Gold Certified
360° Partner, customer
service award 2019,
2020

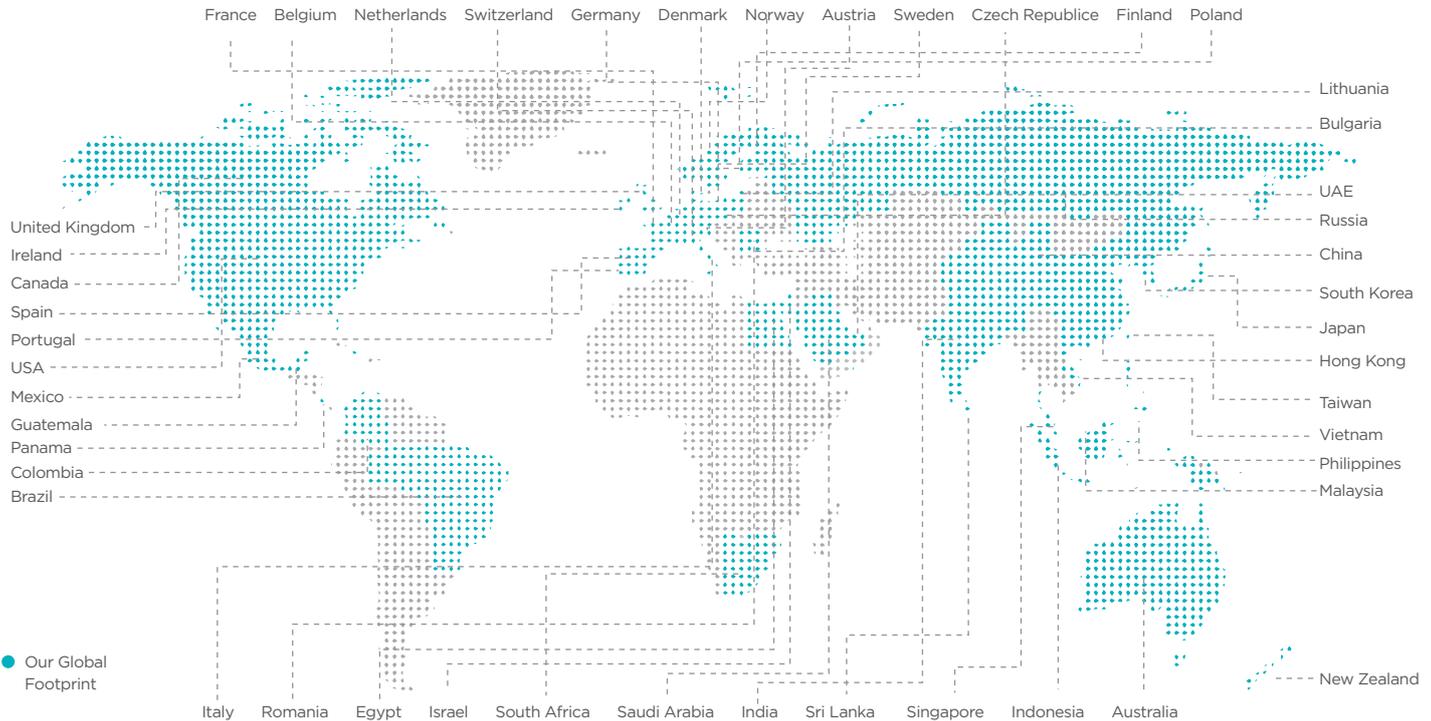


MICROSOFT

Our GEO presence

52 countries. 163 nationals. One HCL

Over 215 delivery centres and 60 innovation labs across the world



Our CREDENTIALS



450+
Client relationships



4500+
Dedicated engineering professionals



25+
Years of experience



40+
Collaborative partner alliances



6 Cyber security fusion centers
40+ Global delivery centers



Recognized by
Avasant, Everest, HfS and ISG,



HCL Technologies (HCL) empowers global enterprises with technology for the next decade today. HCL's Mode 1-2-3 strategy, through its deep-domain industry expertise, customer-centricity and entrepreneurial culture of ideapreneurship™ enables businesses to transform into next-gen enterprises.

HCL offers its services and products through three lines of business - IT and Business Services (ITBS), Engineering and R&D Services (ERS), and Products & Platforms (P&P). ITBS enables global enterprises to transform their businesses through offerings in areas of Applications, Infrastructure, Digital Process Operations, and next generation digital transformation solutions. ERS offers engineering services and solutions in all aspects of product development and platform engineering while under P&P. HCL provides modernized software products to global clients for their technology and industry specific requirements. Through its cutting-edge co-innovation labs, global delivery capabilities, and broad global network, HCL delivers holistic services in various industry verticals, categorized under Financial Services, Manufacturing, Technology & Services, Telecom & Media, Retail & CPG, Life Sciences, and Healthcare and Public Services.

As a leading global technology company, HCL takes pride in its diversity, social responsibility, sustainability, and education initiatives. As of 12 months ending on December 31, 2021, HCL has a consolidated revenue of US\$ 11.18 billion and its 197,777 ideapreneurs operate out of 52 countries. For more information, visit www.hcltech.com



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