

CGI Pulse: An artificial intelligence-driven, hyper-automation platform



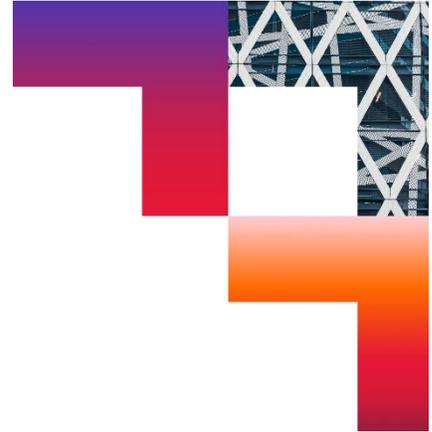
The vast majority of data generated by an organization's processes is unstructured and fails to generate a return on investment. To gain true competitive advantage, leading organizations are moving beyond rules-based processing approaches like robotic process automation (RPA) toward intelligent process automation (IPA). IPA enables machines to intelligently process unstructured data, completely automate manual processes, and deliver strong value.

Capturing the value of unstructured data

As data creation continues to grow exponentially, enterprises are looking for solutions that enable them to capture the full value of their data—around 80% of which is unstructured in nature. Most organizations already use some form of RPA to automate data processing and better leverage their data, but RPA quickly falls short when more complex data is involved. IPA delivers the next level of competitive advantage. Intelligent automation of existing operational processes, including document classification, information extraction, data reconciliation and more, enables enterprises to achieve operational efficiencies and other benefits with minimal or no human intervention.

Driving efficiencies and cost reduction

CGI Pulse is an intelligent document processor that enables organizations to drive efficiencies and reduce costs through artificial intelligence (AI) and process automation. As an AI-driven, hyper-automation platform, CGI Pulse delivers robust AI capabilities and end-to-end AI life cycle services to meet business needs at scale. CGI Pulse uses AI and machine learning (ML) methods to deliver high-performance IPA while integrating easily into existing systems. We currently host more than 25 high-performing AI/ML models for a wide array of use cases, as well as provide a suite of AI services for data annotation, workflow orchestration, model training and more.



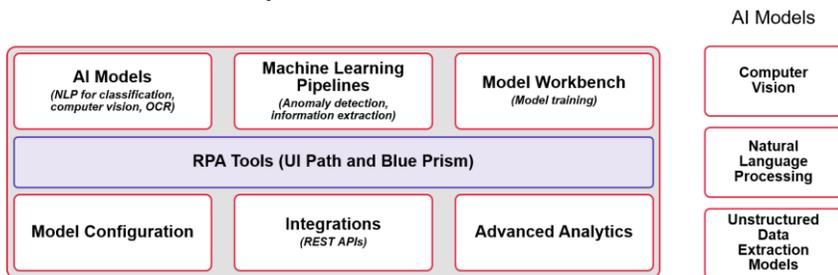
Benefits of leveraging CGI Pulse

- **Maximize operational efficiency through high performance IPA:** CGI Pulse offers clients industry-leading AI performance, delivering more than 90% accuracy on all pre-trained models.
- **Accelerate time to deployment:** CGI Pulse's suite of AI services—from built-in annotation tools to workflow orchestration—reduces project life cycles from six plus months to eight weeks or less.
- **Benefit from total customization:** CGI Pulse offers a range of flexible deployment options and pre-built data connectors to provide clients with the fastest and easiest way to start leveraging the benefits of intelligent automation.

CGI Pulse at a glance

- **Industry-leading AI models and pipelines:** CGI Pulse's 25+ industry-leading AI models outperform traditional off-the-shelf solutions. Its pre-trained AI models deliver results with a 90% plus accuracy rate.
- **End-to-end AI life cycle services:** Our suite of AI services simplifies the AI project life cycle for business analysts and data scientists alike. From data annotation tools to no-code training and monitoring, CGI Pulse offers organizations the power to develop and deploy custom AI solutions without writing a single line of code.
- **Flexible system and data integration:** CGI Pulse integrates seamlessly with any industry RPA tool (e.g., UiPath, Blue Prism), cloud platform, or on-premise system through APIs and provides organizations the quickest way to implement high-performance IPA.

CGI Pulse ecosystem



Use case examples for CGI Pulse

- Classification-as-a-service
- Extraction-as-a-service
- Invoice automation
- Content discovery
- Content deduplication
- Document sentiment analysis
- Social feed analysis
- Image classification
- Handwriting recognition
- Speech-to-text conversion

Why work with CGI?

Our deep domain knowledge and technology engineering skills deliver AI models that significantly outperform off-the-shelf AI/ML solutions. We built CGI Pulse based on real-life projects with clients across the finance, healthcare, telecom and energy sectors. We can integrate the solution with any industry RPA tool through APIs, enabling organizations to enhance their orchestration infrastructure rather than starting from scratch. Our 25+ AI models span a wide array of use cases, including document and image classification, information extraction, sentiment analysis, invoice automation and more.

USE CASE

Using AI to derive sentiment insight from unstructured financial documents

- **Problem statement:** Investors need an automated solution to extract important semantic information from thousands of 10-K and 10-Q reports.
- **Value delivered:** CGI Pulse's automated approach provides metrics for most positive and negative sentences in a given document.
- **Model fact sheet:**
 - Model: FinBERT Deep Learning Language Model
 - Training data: 630 million words
 - Performance: 97% accuracy on data with 100% human agreement; 86% accuracy on all data

About CGI

Insights you can act on

Founded in 1976, CGI is among the largest IT and business consulting services firms in the world.

We are insights-driven and outcomes-based to help accelerate returns on your investments. Across hundreds of locations worldwide, we provide comprehensive, scalable and sustainable IT and business consulting services that are informed globally and delivered locally.

For more information

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