CogAbility Acceleration Platform (CAP)™

Product Data Sheet

Introduction

Cognitive computing is a narrow form of artificial intelligence that is already transforming the way we work and live.

But deploying effective cognitive solutions can be challenging. Content must be identified, gathered, cleansed, ingested, and continuously updated.

Then machine learning models must be created and regularly updated.

Another challenge is the rate of change. Cognitive computing technology is moving fast so the ground can shift under your feet as you walk your cognitive journey.

To overcome these challenges and accelerate cognitive success, what's needed is a complete, end-to-end cognitive workflow that provides corpus management, closes the teaching feedback loop, and protects applications from the rapidly changing technology. No matter how many different models or underlying API services are required.

This is why we built the ***CogAbility Acceleration Platform (CAP)™***

CAP is a platform-as-a-service that is the result of over 2 years of research and development in close cooperation with the IBM Watson team, IBM Research, and our clients.

CAP dramatically simplifies the creation, integration, and training of AI solutions of any type - from chatbots deployed on Facebook to intelligent document processing solutions that cross multiple systems.

Whether you are just starting to think about applying AI and cognitive computing to your world or you've already started your AI journey and are looking to accelerate your success, CAP can help you.

Contact CogAbility today and let's explore how best to leverage cognitive computing & to empower your organization!

CAP Features & Benefits

CAP Feature	Benefit
One Unified API Your CogBot Digital Employee only needs to call one API to take advantage of dozens of third party AI services, large language models like OpenAI GPT4, public and private data sources, the Internet, and internal enterprise applications.	**Shortens time to value and reduces risk.** For example, the IBM Watson team needed a new mobile cognitive application called Watson Business Coach for a fast-approaching World of Watson conference. They chose CogAbility and CAP because no one else could develop the application in time. By leveraging CAP, Watson Business Coach went from concept to production in 3 weeks and the application debuted at World of Watson on time.
Insulation from Change Artificial intelligence and cognitive computing are changing fast. This is great because it means more capability is always being deployed. However, it creates problems for applications that must undergo constant and significant change to try and keep up. CAP-built AI solutions avoid this problem because the underlying API changes are taken care of automatically within CAP so no changes or additional costs are incurred by CAP clients.	**Eliminate cost and unplanned downtime.** CAP provides your CogBot the ability to utilize any and all best-in-class AI models and services from leaders including Google, Amazon AWS, OpenAI, IBM Watson, and a wide variety of open source solutions.
Automated Corpus Curation Custom CAP Content Connectors automatically ingest public and private data into the CogUniversity Library, including from your website and help desk knowledge base. From there, the data is used to train a new CogBot or a new skill.	**Always leverage the latest information.** The latest information is automatically added to the corpus and old content is expired.
CogUniversity An innovative and engaging application that makes it easy for subject matter experts to serve as "faculty" and teach your CogBot domain specific information, curate corpus content and collections, and interact with cognitive usage analytics.	**Eliminate human factor issues from the AI training process.** By simplifying the training process into an easy 4-star rating exercise, CogUniversity practically eliminates the often complex process of engaging subject matter experts in the labeling of training data.
AutoTeach An industry-exclusive feature of	**Your AI gets smarter without human intervention**.

CogUniversity that automatically generates machine learning data from content such as FAQ documents, knowledge bases, and catalogs.	CogUniversity AutoTeach is used to teach machine learning models on hundreds of FAQ questions with no human intervention.
Hybrid Teaching Model Automatically and continuously tune your AI model's responses to find the best fit of short tail/long tail answers based on actual user questions. This is another industry exclusive for CAP.	**More consistent answers to the most common questions.** The most common questions are automatically moved to the top of the teaching session, so they always get addressed and trained.
CogMAT Test Scores An adaptive testing methodology for statistically measuring the accuracy of your AI's output/answers. It's basically an exam for your CogBot that is tailored to your specific domain.	**Monitor response quality to support constant improvement.** CogMAT embodies best practices for objectively gauging the quality of answers & responses provided by cognitive applications.
Cognitive Gradebook Tracks and reports your CogBot's response accuracy over time using sophisticated statistical methods.	**Quantitative insight into the quality of your CogBot's performance on the job.**
UnifiedSearch Used in conversational AI applications, your CogBot can search multiple corpora, the Internet, and other sources to find and return exactly the right result for the query/request.	**Saves chatbot users time** by presenting cognitive search results from multiple sources with one search. No more searching here, there, and everywhere. With UnifiedSearch it's "one and done."
Deeplink Integration Based on the users input, Watson determines what application the user needs and takes them there.	**A single user interface to interact with many applications.** Clients tell us their users long for a single place to find what they need & to take care of everything they need. With CAP, a single application can be used to field a wide range of requests that touch many different underlying systems, all through a single natural language interface.
Custom API Connectors Simplifies the integration of services available on a client's intranet or the public Internet into CAP so that they can be seamlessly accessed and leveraged by the CogBot.	**A single CogBot can process a variety of tasks involving many systems.** For example, in a single user session your CogBot can book an appointment, estimate a fee, pay an overdue bill, and complete a form.
CogBot Analytics	**Deep insight into user adoption, user**

Every CogBot comes equipped with real time data feeds that measure how well the CogBot is doing its job. This information is displayed within the CogBot's Operations Center inside CogUniversity.	**feedback, and business results to guide future enhancements.** Many customers tell us that one of the biggest benefits of their new digital employee is the quantity and quality of data provided to inform & guide their change initiatives.

About CogUniversity
CogUniversity is the world's first university dedicated to teaching machines rather than humans.

All of the students at CogUniversity are AI creatures… called CogBots who serve as digital employees for our clients. Human subject matter experts become faculty members at CogUniversity to teach the CogBots what they need to learn. These faculty members don't need to know anything about AI or computer programming… but they need to know everything about what they are teaching the CogBot.

CogBots are lifelong learners. They earn a CogUniversity degree in their major after 1 year of study and then automatically enter the CogUniversity Continuing Education program in their declared major to keep their skills sharp. The Cogbot can also take additional courses at any time to add new capabilities. At CogUniversity, CogBots can learn to do anything that today's AI technology can do.

CogUniversity is operated by CogAbility® in cooperation with Google, IBM, and Amazon, and other technology partners that leverages the latest AI technology to help businesses gain competitive advantages in exciting new ways, go after emerging markets, and develop whole new business models.

About CogAbility
CogAbility is an independent AI firm that operates CogUniversity. We are dedicated to accelerating the deployment of responsible AI and shortening time-to-value for our clients. We leverage the best AI technology from CogAbility, the open source community, our partners IBM, Google, Amazon, Microsoft, and others to help businesses gain competitive advantages in exciting new ways, go after emerging markets, and develop whole new business models.

- *15 Questions to Ask When Picking Your AI Partner*

Our Mission
Accelerate the deployment of responsible AI for the benefit of people, organizations, and the planets