

Innovation in Self-Learning AI CogitAI's Continua™ SaaS Platform

Evolution of AI

Up until now, machine learning in AI has been highly specialized and limited to solving supervised learning problems. Supervised learning requires humans to manually label examples and then recognize the relationships between the data and the labels. For example, companies developing self-driving car technologies hire hundreds of people to manually annotate hours of video feeds from prototype vehicles to help train their systems.

Reinforcement learning improves on supervised learning by enabling the machine learning algorithms to choose actions and discover which sequences of actions lead to mastering a predefined task. This is applicable to many real-life problems. For example, when you drive to work, you make a long sequence of decisions, where each has an impact on your total commute time, and a decision that looks good at the moment might still lead to a traffic jam down the road. Reinforcement learning algorithms can figure out which decisions are best, even those made at the start of the drive.

The CogitAI Continua™ SaaS Platform

Unlike open academic platforms available to further AI research, CogitAI's continua platform is a general-purpose commercial solution with the ability to self-learn and improve any process, system, software bot, or robot while personalizing the experience for each use.

Available today for licensing, Continua is the first commercially available self-learning AI SaaS platform, with internal and external SaaS implementations. It is the most comprehensive commercial platform for reinforcement learning and supervised learning, which accelerates progress in continual self-learning, with the ability to predict the effects of its actions and improve any process.

KEY HIGHLIGHTS INCLUDE:

- Enables collective data learning across the platform and ability to apply to similar use cases
- Human training of the AI focuses and speeds the learning process
- Automates nearly any repetitive decision process. The greater the number of decisions to be made, the more Continua can help
- Offers relatively simple but flexible RESTful interface where customers can define the format of the data and the objectives that Continua should learn to maximize
- Includes client libraries in Java, Javascript, Python and others that communicate with Continua, and lower-level APIs for machine learning, reinforcement learning customization as needed
- Continua's team of PhD engineers works closely with customers to help optimize their installations

Use Cases

The use cases for CogitAI's platform are endless for a range of self-learning in applications including vehicles, video games, building management, customer-service bots, web marketing, AI coaches personalizing wellness and fitness, AI software testing bots that learn to find and fix issues, robotic process automation (RPA) and calibration in semiconductors for power management efficiencies.

Integrating your System with Continua

The CogitAI platform Continua is hosted in the cloud or inside your company's firewall. You can sign up for a 60-day free evaluation period on our web site to access the Continua platform.

Continua has a relatively simple but flexible RESTful interface. We will work with you to define the format of the data and the objectives that Continua should learn to maximize.

The interaction between your system and Continua will follow this basic pattern:

Data is passed to Continua in JSON format. To simplify interaction with the Continua platform, CogitAI supplies client libraries in Java, Javascript, Python and other languages that communicate with Continua. Beyond these tools, CogitAI also supplies a lower-level API for developers with strong backgrounds in Machine Learning and Reinforcement Learning, who wish to modify finer details of Continua's learning methods. CogitAI also makes available a set of interfaces to monitor your account.

