c o g n i t i o n

APPLICATIONS:

Intelligent Virtual Assistants
Electronic Advisors
Software Robots
Decision Support
Chatbots
Offer Engines

INDUSTRY USE CASES:

Financial
Insurance
High Technology
Healthcare
Pharmaceuticals
Retail
Travel
Telecom
Media
Energy

CORE COMPONENTS:

Deep learning, real-time computational grid, mobile agents, distributed file system, in-memory data grid, cluster resource manager, job scheduler, message broker, predictive modeling, text analytics, natural language processing and understanding, speech recognition and synthesis, computer vision, OCR, logic programming, rules engine, business process manager, SAP and Salesforce connectors, document store, version control system, and package manager.

LANGUAGES INCLUDED:

R, Prolog, DRL, Java, Scala, Python

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PRODUCT OVERVIEW

Cognition is an Artificial Intelligence Operating System (AIOS). It seamlessly combines robotic process automation (RPA), machine learning (ML), natural language understanding (NLU), and operational decision management (ODM). It was designed to be a comprehensive, fully integrated environment upon which to build the next generation of AI applications. Programs developed on cognition can function as intelligent virtual assistants, electronic advisors, software robots, and recommendation engines. The technology enables organizations to consolidate all their AI initiatives (and vendors) onto a single, standards based, platform.

Applications you build with cognition can make recommendations using either machine learning algorithms or human like thought processes alone. Or they can seamlessly combine both approaches together simultaneously, into a new and improved form of Hybrid Intelligence™. This software architecture supports the best of both the art, and the science, of decision making.

Cognition can learn in many different ways. The first is by finding hidden patterns contained within structured or unstructured data. The second is simply by talking to human experts. Next it can read and comprehend printed texts within limited domains. Lastly, it can grow smarter through its own life experiences.

Cognition can directly interface with the outside world. One way is by receiving events generated by sensors through a distributed message broker. It can also see and interpret images and printed text, using computer vision and optical character recognition. Most importantly, it can speak and fully understand plain English, using True Meaning™ technology, allowing it to converse with people and build rapport.

Cognition operates at the very edge of the computer network, so that decisions can always be made in a millisecond, without any internet connection. Just as importantly though, it is deployed behind its own firewall, within a hardened Linux OS.

The environment exposes a reusable framework to software engineers that simplifies AI programming concepts. This allows them to focus solely on the business requirements, and meeting development deadlines, rather than on the technical details of integrating the technologies included within the platform.