
AI technologies we have today and their applicability

The composition of human-like thinking into a computer system or an electronic device coupled with the strength of inter-connectivity among smarter objects is going to bring a revolution in the way data is being handled and analyzed. Thus minimizing manual interference, an enormous amount of data can be analyzed in a fraction of the time. More advanced and innovative analytical tools could emerge as a new platform for analysis and reporting. AI will extend the reach of software into new applications, new industrial domains. Service industries like insurance, logistics, and retail banking will increasingly become software industries. This will enable these services, which our society relies on, to be performed smoothly, at a fraction of the cost it does today, making them more affordable and reliable.

This expansion will occur with AI software performing tasks too complex and subtle for traditional software to handle, but narrow enough for an AI algorithm to perform. For example, driving a car consists in a sequence of restricted actions: accelerate, decelerate, and turn. But driving properly requires careful interpretation of the environment and objects surrounding the car. It's both a narrow and subtle task that is a good candidate for AI. Interpreting radiology scans is even narrower: the environment is the scan, the action is the diagnosis. Waitressing, on the other hand, faces a far more complex environment from an AI point of view.

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Natural Language Generation

Natural language generation is an artificial intelligence sub-discipline that converts data into text. This enables computers to communicate ideas with perfect accuracy. It is currently being used in customer service to generate reports and market summaries. Some of the services providers and suppliers offering these services include Attivio, Automated Insights, Cambridge Semantics, Digital Reasoning, Lucidworks, Narrative Science, SAS and Yseop.

Speech recognition

Siri is not the only system that understands you. Every day, more and more systems incorporate the transcription and transformation of human language into useful formats suitable for computers. Speech recognition is currently being implemented into voice-response interactive systems and mobile apps. Companies offering speech recognition services include NICE, Nuance Communications, OpenText and Verint Systems.

Virtual Agents

A virtual agent is nothing more than a computer agent or program capable of interacting with humans. The most common example of this kind of technology is chat bots. Virtual agents are currently being used for customer service and support and as smart home managers. Some of the companies that provide virtual agents include Amazon, Apple, Artificial Solutions, Assist AI, Creative Virtual, Google, IBM, IPsoft, Microsoft and Satisfi.

Machine Learning Platforms

Machine learning is a subdiscipline of computer science and a branch of artificial intelligence. Its goal is to develop techniques that allow computers to learn. By providing algorithms, APIs (application programming interface), development and training tools, big data, applications and other machines, machine learning platforms are gaining more and more traction every day. They're currently being used in diverse business activities, mainly for prediction or classification. Some of the companies selling machine learning platforms include Amazon, Fractal Analytics, Google, Adext, H2O.ai, Microsoft, SAS and Skytree.

AI-Optimized Hardware

There is no other option. Hardware needs to become friendlier thanks to the addition of artificial intelligence technologies. New graphic and central processing units and processing devices specifically designed and structured to execute AI oriented tasks. Some of the services providers and suppliers of these types of technologies include Alluviate, Cray, Google, IBM, Intel and Nvidia.

Decision Management

Intelligent machines are capable of introducing rules and logic to artificial intelligence systems and can be used for initial setup/training, ongoing maintenance and tuning. This intelligent robot is in charge of making the smartest investment decisions so your business is as profitable as possible. Some services providers and suppliers of decision management technologies include Advanced Systems Concepts, Informatica, Maana, Pegasystems and UiPath.

Deep Learning Platforms

Deep learning platforms use a special form of machine learning involving artificial neural circuits with various abstraction layers. This technology mimics the human brain, processing data and creating patterns to use for decision making. It is currently mainly being used to recognize patterns and classify applications that are only compatible with large-scale data sets. Deep learning platform services providers and suppliers include Deep Instinct, Ersatz Labs, Fluid AI, MathWorks, Adext, Peltarion, Saffron Technology and Sentient Technologies.

Biometrics

This technology deals with the identification, measurement and analysis of physical aspects of the body's structure and form and human behavior. It allows more natural interactions between humans and machines, including interactions related to touch, image, speech and body language recognition. This technology is currently mostly being used for market research. Suppliers of this technologies include 3VR, Affectiva, Agnitio, FaceFirst, Sensory, Synqera and Tahzoo.

Robotic Processes Automation

Robotic processes automation is possible thanks to scripts and methods that mimic and automate human tasks to support corporate processes. It is now being used in special

situations where It's too expensive or inefficient to hire humans for a specific job or task. Some examples of robotic processes automation services providers and suppliers include Advanced Systems Concepts, Automation Anywhere, Blue Prism, UiPath and WorkFusion.

Text Analytics & NLP (Natural Language Processing)

This technology uses text analytics to understand the structure of sentences, as well as their meaning and intention, through statistical methods and machine learning. Text analytics and NLP are currently being used for security systems and fraud detection. They are also being use by a huge array of automated assistants and apps to extract unstructured data. Some of the services providers and suppliers of these technologies include Basis Technology, Coveo, Expert System, Indico, Knime, Lexalytics, Linguamatics, Mindbreeze, Sinequa, Stratifyd and Synapsify.

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