

What is Cognitive Computing?

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About Cognitive Computing

- Cognitive computing is the use of computerized models to simulate the human thought process in complex situations where the answers might be ambiguous and uncertain.
- It is an attempt to have computers mimic the way the human brain works.
- The goal is to create intelligent systems that can adapt and make decisions similar to the way humans would.
- To accomplish this, cognitive computing uses artificial intelligence (AI) and other underlying technologies, including the following:
 - Expert systems.
 - Neural networks.
 - Machine learning.
 - Deep learning.
 - Natural language processing (NLP).
 - Speech recognition.
 - Object recognition.
 - Robotics.
- It uses these processes in conjunction with self-learning algorithms, data analysis, and pattern recognition to teach computing systems.
- Cognitive computing applications analyze patterns and apply machine learning to replicate human capabilities such as deduction, learning, perception, and reasoning.

- Unlike traditional programmed systems, cognitive computing solutions can analyze large amounts of unstructured data from various sources and identify patterns and insights.
 - They can interpret text, images, speech and make connections across data. Over time, these systems continue to learn from their interactions and experiences.
 - The learning technology can be used for sentiment analysis, risk assessments, and face detection.
 - In addition, cognitive computing is particularly useful in fields such as healthcare, banking, finance, and retail.
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Q1) What is Machine Learning?

Machine learning is a branch of artificial intelligence (AI) and computer science which focuses on the use of data and algorithms to imitate the way that humans learn, gradually improving its accuracy.

Source: [Cognitive Computing Market Share, Size, Trends Analysis, Report 2023-2028](#)

Source: <https://vajiramandravi.com/current-affairs/cognitive-computing/>

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