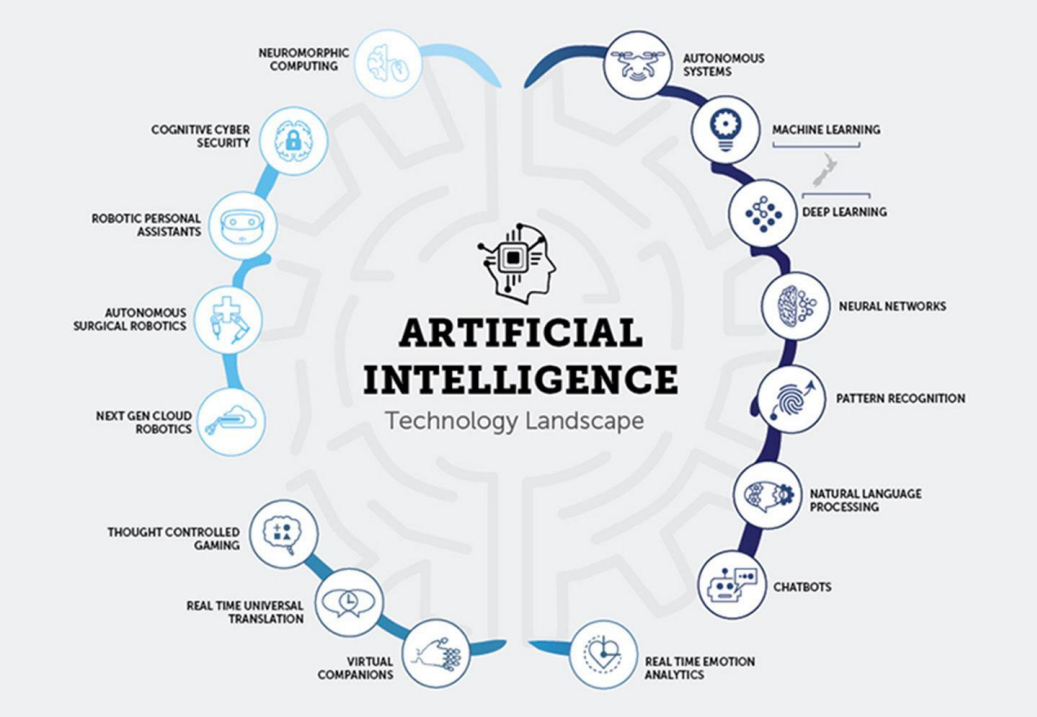
What is AI? Learn about Artificial Intelligence

Artificial Intelligence (AI) Explained

In the simplest terms, AI which stands for artificial intelligence refers to systems or machines that mimic human intelligence to perform tasks and can iteratively improve themselves based on the information they collect. AI manifests in a number of forms. A few examples are:

- Chatbots use AI to understand customer problems faster and provide more efficient answers
- Intelligent assistants use AI to parse critical information from large free-text datasets to improve scheduling
- Recommendation engines can provide automated recommendations for TV shows based on users' viewing habits

AI is much more about the process and the capability for superpowered thinking and data analysis than it is about any particular format or function. Although AI brings up images of high-functioning, human-like robots taking over the world, AI isn't intended to replace humans. It's intended to significantly enhance human capabilities and contributions. That makes it a very valuable business asset.



Artificial intelligence terms

AI has become a catchall term for applications that perform complex tasks that once required human input such as communicating with customers online or playing chess. The term is

often used interchangeably with its subfields, which include machine learning and deep learning. There are differences, however. For example, machine learning is focused on building systems that learn or improve their performance based on the data they consume. It's important to note that although all machine learning is AI, not all AI is machine learning.
To get the full value from AI, many companies are making significant investments in data science teams. Data science, an interdisciplinary field that uses scientific and other methods to extract value from data, combines skills from fields such as statistics and computer science

AI and developers

Developers use artificial intelligence to more efficiently perform tasks that are otherwise done manually, connect with customers, identify patterns, and solve problems. To get started with AI, developers should have a background in mathematics and feel comfortable with algorithms.

When getting started with using artificial intelligence to build an application, it helps to start small. By building a relatively simple project, such as tic-tac-toe, for example, you'll learn the basics of artificial intelligence. Learning by doing is a great way to level-up any skill, and artificial intelligence is no different. Once you've successfully completed one or more small-scale projects, there are no limits for where artificial intelligence can take you.

How AI Technology can help organizations

The central tenet of AI is to replicate—and then exceed—the way humans perceive and react to the world. It's fast becoming the cornerstone of innovation. Powered by various forms of machine learning that recognize patterns in data to enable predictions, AI can add value to your business by:

- Providing a more comprehensive understanding of the abundance of data available
- Relying on predictions to automate excessively complex or mundane tasks