[Machine learning](https://www.simplilearn.com/tutorials/machine-learning-tutorial/introduction-to-machine-learning" \o "Machine learning" \t "_blank) is an exciting branch of Artificial Intelligence, and it’s all around us. Machine learning brings out the power of data in new ways, such as Facebook suggesting articles in your feed. This amazing technology helps computer systems learn and improve from experience by developing computer programs that can automatically access data and perform tasks via predictions and detections.

As you input more data into a machine, this helps the algorithms teach the computer, thus improving the delivered results. When you ask Alexa to play your favorite music station on Amazon Echo, she will go to the station you played most often. You can further improve and refine your listening experience by telling Alexa to skip songs, adjust the volume, and many more possible commands. Machine Learning and the rapid advance of [Artificial Intelligence](https://www.simplilearn.com/tutorials/artificial-intelligence-tutorial/what-is-artificial-intelligence) makes this all possible.

The concept of machine learning has been around for a long time (think of the World War II [Enigma Machine](https://en.wikipedia.org/wiki/Enigma_machine), for example). However, the idea of automating the application of complex mathematical calculations to big data has only been around for several years, though it’s now gaining more momentum.

At a high level, machine learning is the ability to adapt to new data independently and through iterations.  Applications learn from previous computations and transactions and use “pattern recognition” to produce reliable and informed results.

Machine Learning is, undoubtedly, one of the most exciting subsets of Artificial Intelligence. It completes the task of learning from data with specific inputs to the machine. It’s important to understand what makes Machine Learning work and, thus, how it can be used in the future.