

Machine learning is the field of science that enables a computer to learn without being explicitly programmed. It will train a piece of software using an algorithm or model to make predictions and improve itself over time.

There are several methods for classifying machine learning processes, these are the most common algorithms.

- Supervised learning presents the model or algorithm with inputs and outputs, it will then find connections and patterns between the inputs and outputs. It will continue to learn until the desired accuracy is met. Using this method means that we need to know that the data is correct and have maybe thousands or millions of data to meet the desired accuracy.
- Unsupervised learning presents the input with no known output, meaning that the learning algorithm is on its own to find structure in its inputs. It is used to cluster together the input into different groups.
- Reinforcement learning interacts with an environment and must perform a certain goal and will receive positive or negative feedback depending on if it got closer or reached the goal.

Sources:

<https://www.geeksforgeeks.org/getting-started-machine-learning/>

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