

## Bing

Machine Learning (ML) is a subfield of Artificial Intelligence (AI) that uses algorithms trained on data sets to create models that enable machines to perform tasks that would otherwise only be possible for humans. It is a method of data analysis that automates analytical model building. The machine learning process starts with feeding good quality data and then training the machines by building various machine learning models using the data and different algorithms. The choice of algorithms depends on what type of data we have and what kind of task we are trying to automate.

In a formal definition, Machine Learning can be defined as the use and development of computer systems that are able to learn and adapt without following explicit instructions, by using algorithms and statistical models to analyze and draw inferences from patterns in data. For example, if a Machine Learning algorithm is used to play chess, then the experience  $E$  is playing many games of chess, the task  $T$  is playing chess with many players, and the performance measure  $P$  is the probability that the algorithm will win in the game of chess.

I hope this helps! If you have any other questions, feel free to ask...