Difference between Machine learning and Artificial Intelligence

Artificial Intelligence and Machine Learning are the terms of computer science. This article discusses some points on the basis of which we can differentiate between these two terms.

Overview

Artificial Intelligence: The word Artificial Intelligence comprises of two words "Artificial" and "Intelligence". Artificial refers to something which is made by human or non natural thing and Intelligence means ability to understand or think. There is a misconception that Artificial Intelligence is a system, but it is not a system. All is implemented in the system. There can be so many definition of All, one definition can be "It is the study of how to train the computers so that computers can do things which at present human can do better." Therefore It is a intelligence where we want to add all the capabilities to machine that human contain.

Machine Learning: Machine Learning is the learning in which machine can learn by its own without being explicitly programmed. It is an application of AI that provide system the ability to automatically learn and improve from experience. Here we can generate a program by integrating input and output of that program. One of the simple definition of the Machine Learning is "Machine Learning is said to learn from experience E w.r.t some class of task T and a performance measure P if learners performance at the task in the class as measured by P improves with experiences."

The key difference between AI and ML are:

ARTIFICIAL INTELLIGENCE

MACHINE LEARNING

Al stands for Artificial intelligence, where intelligence is

ML stands for Machine Learning

defined acquisition of knowledge intelligence is defined as a ability to acquire and apply knowledge.	which is defined as the acquisition of knowledge or skill
The aim is to increase chance of success and not accuracy.	The aim is to increase accuracy, but it does not care about success
It work as a computer program that does smart work	It is a simple concept machine takes data and learn from data.
The goal is to simulate natural intelligence to solve complex problem	The goal is to learn from data on certain task to maximize the performance of machine on this task.
Al is decision making.	ML allows system to learn new things from data.
It leads to develop a system to mimic human to respond behave in a circumstances.	It involves in creating self learning algorithms.
Al will go for finding the optimal solution.	ML will go for only solution for that whether it is optimal or not.
Al leads to intelligence or wisdom.	ML leads to knowledge.

Reference:

www.techrepublic.com/article/understanding-the-differences-between-ai-machine-learning-and-deep-learning