

# Machine Learning Algorithms

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## Abstract

Machine learning is the scientific study of algorithms and statistical models that computer systems use to perform a specific task without using explicit instructions, much like humans do. With many companies collecting corporate and customer data, machine learning is the key to processing and using the massive quantity of data to identify profitable opportunities or risks. Besides data mining, machine learning is used to compute complex tasks that humans could not feasibly perform, including facial recognition, network surveillance, automation, online search and healthcare. With the infinite amount of use cases for machine learning, there are a multitude of algorithms that are used by programmers. Each algorithm differs in their approach and the type of problem that they are built to solve. We will explore some of the most common

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