**Question: How do I understand Machine Learning?**

**ChatGPT:**

Machine learning is a branch of artificial intelligence that involves the use of algorithms and statistical models to enable computers to learn and improve from data without being explicitly programmed.

To understand machine learning, it is essential to have a good understanding of mathematics, particularly linear algebra, probability, and statistics. It would also help to have a background in computer science, particularly in programming languages such as Python, R, and MATLAB, which are commonly used in machine learning.

There are three main types of machine learning algorithms: supervised learning, unsupervised learning, and reinforcement learning.

Supervised learning involves using labeled data to train a model to predict outcomes. Unsupervised learning involves training a model on unlabeled data to find patterns or clusters. Reinforcement learning involves training a model to make decisions based on feedback from its environment.

To get started with machine learning, you can begin by taking online courses, reading textbooks, or attending workshops or conferences. Additionally, there are many open-source machine learning libraries and frameworks available that you can use to build and test models. Finally, it's important to remember that machine learning is an iterative process that involves experimentation and refinement, so be prepared to experiment and adjust your approach as you go along.

**Comment:** ChatGPT gives basic overview, not enough details, didn’t give enough roadmap and topics to understand ML, provides conceptual knowledge.

**Google:**

**Links and Documents:**

1. [**https://www.mathworks.com/discovery/machine-learning.html#:~:text=Machine%20Learning%20is%20an%20AI,predetermined%20equation%20as%20a%20model**](https://www.mathworks.com/discovery/machine-learning.html#:~:text=Machine%20Learning%20is%20an%20AI,predetermined%20equation%20as%20a%20model)**.**



1. <https://www.springboard.com/blog/data-science/how-to-learn-machine-learning/>



1. <https://machinelearningmastery.com/start-here/>



1. <https://elitedatascience.com/learn-machine-learning>



1. <https://learndigital.withgoogle.com/digitalgarage/course/machine-learning-basics>



1. <https://www.simplilearn.com/tutorials/machine-learning-tutorial/what-is-machine-learning>

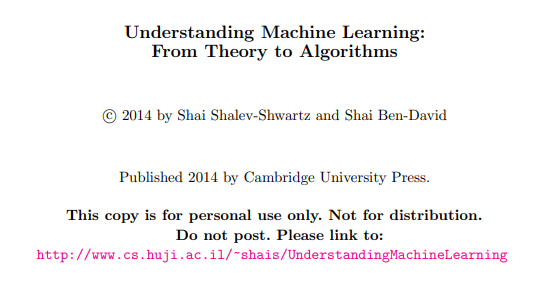


1. <https://mitsloan.mit.edu/ideas-made-to-matter/machine-learning-explained>



1. <https://www.cs.huji.ac.il/~shais/UnderstandingMachineLearning/understanding-machine-learning-theory-algorithms.pdf>

Drives to a book named “Understanding Machine Learning: From Theory to Algorithms”



**Comment:** Google search using Gmail account provides a lot of information but not specific, time consuming to find specific answer. Also, it sometimes gives irrelevant answers. But overall gives a proper roadmap.

**Google (New Incognito window):   
Links and Documents:**

1. [**https://www.simplilearn.com/tutorials/machine-learning-tutorial/machine-learning-steps**](https://www.simplilearn.com/tutorials/machine-learning-tutorial/machine-learning-steps)



1. <https://machinelearningmastery.com/start-here/>



1. <https://elitedatascience.com/learn-machine-learning>



1. <https://www.springboard.com/blog/data-science/how-to-learn-machine-learning/>



1. [**https://www.simplilearn.com/tutorials/machine-learning-tutorial/what-is-machine-learning**](https://www.simplilearn.com/tutorials/machine-learning-tutorial/what-is-machine-learning)



1. [**https://www.zdnet.com/article/what-is-machine-learning-everything-you-need-to-know/**](https://www.zdnet.com/article/what-is-machine-learning-everything-you-need-to-know/)



1. [**https://www.mathworks.com/discovery/machine-learning.html#:~:text=Machine%20Learning%20is%20an%20AI,predetermined%20equation%20as%20a%20model**](https://www.mathworks.com/discovery/machine-learning.html#:~:text=Machine%20Learning%20is%20an%20AI,predetermined%20equation%20as%20a%20model)**.**



1. [**https://www.toptal.com/machine-learning/machine-learning-theory-an-introductory-primer**](https://www.toptal.com/machine-learning/machine-learning-theory-an-introductory-primer)



1. [**https://www.freecodecamp.org/news/how-to-learn-machine-learning-practical-tips-and-resources/**](https://www.freecodecamp.org/news/how-to-learn-machine-learning-practical-tips-and-resources/)



1. [**https://mitsloan.mit.edu/ideas-made-to-matter/machine-learning-explained**](https://mitsloan.mit.edu/ideas-made-to-matter/machine-learning-explained)



**Comment:** New Incognito window of Google provides almost same result as Google results using Gmail account.

**Microsoft Bing:**

**Links and Documents:**

1. [**https://www.sas.com/en\_us/insights/analytics/machine-learning.html#:~:text=Machine%20learning%20is%20a%20method%20of%20data%20analysis,patterns%20and%20make%20decisions%20with%20minimal%20human%20intervention**](https://www.sas.com/en_us/insights/analytics/machine-learning.html#:~:text=Machine%20learning%20is%20a%20method%20of%20data%20analysis,patterns%20and%20make%20decisions%20with%20minimal%20human%20intervention)**.**



1. [**https://mitsloan.mit.edu/ideas-made-to-matter/machine-learning-explained**](https://mitsloan.mit.edu/ideas-made-to-matter/machine-learning-explained)



1. [**https://www.mathworks.com/discovery/machine-learning.html**](https://www.mathworks.com/discovery/machine-learning.html)



1. [**https://www.bing.com/videos/search?q=How+do+I+understand+Machine+Learning%3f&qpvt=How+do+I+understand+Machine+Learning%3f&FORM=VDRE**](https://www.bing.com/videos/search?q=How+do+I+understand+Machine+Learning%3f&qpvt=How+do+I+understand+Machine+Learning%3f&FORM=VDRE)



1. [**https://www.springboard.com/blog/data-science/how-to-learn-machine-learning/**](https://www.springboard.com/blog/data-science/how-to-learn-machine-learning/)



1. [**https://www.freecodecamp.org/news/how-to-learn-machine-learning-practical-tips-and-resources/**](https://www.freecodecamp.org/news/how-to-learn-machine-learning-practical-tips-and-resources/)



1. [**https://www.ibm.com/topics/machine-learning**](https://www.ibm.com/topics/machine-learning)



1. [**https://machinelearningmastery.com/start-here/**](https://machinelearningmastery.com/start-here/)



1. [**https://www.simplilearn.com/tutorials/machine-learning-tutorial/what-is-machine-learning**](https://www.simplilearn.com/tutorials/machine-learning-tutorial/what-is-machine-learning)



1. [**https://www.geeksforgeeks.org/machine-learning/**](https://www.geeksforgeeks.org/machine-learning/)



**Comment:** Microsoft Bing provides few useful links, but maximum links contain unnecessary information or overdetailed information.

**Conclusion:** ChatGPT is better but Google is way better than other search engines. Microsoft Bing offers a limited number of helpful links, but the majority of them are cluttered with irrelevant or excessively comprehensive information that makes it difficult for users to find the precise answer. Google and Google Incognito window provides a lot of information but not specific always, little time consuming to find specific answer. It gives irrelevant answers a few times, but overall gives a proper roadmap idea about the topic. Basic overviews are provided by ChatGPT, but there aren't enough details, topics, or roadmaps to comprehend ML. However, it does provide conceptual knowledge.

**So, I am concluding that Google is way better than other search engines.**