

## **Machine Learning: an overview**

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### Abstract:

Machine learning has been touted as the cure for any ail in the era of big data. So what is it? And what can it do?

In this talk, I will discuss the history and definition of machine learning as a field, surveying the different subareas of machine learning, and then concentrating on the most common: supervised learning. This talk will cover the popular supervised learning methods at a high level (including deep learning and support vector machines), demonstrating their commonalities through loss functions and regularization. I will conclude with discussions of the limits of supervised learning and some information on how it is used in practice.