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> Learning

Unit 1 Linear Classifiers and

Lecture 1. Introduction to Machine

<u>Course</u> > <u>Generalizations (2 weeks)</u>

4. Introduction to Supervised Learning

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4. Introduction to Supervised Learning Introduction to Supervised Learning





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Common to all these "prediction problems" mentioned on the previously is that it is very hard to write down a solution in terms of rules or code directly, and far easier to provide examples of correct behavior. For example, how would you encode rules for translation, or image classification? It is much easier to provide large numbers of translated sentences, or examples of what the objects are on a large set of images. The ability to learn the solution from examples is what has made machine learning so popular and pervasive.

We will start with supervised learning in this course. In supervised learning, we are given an example (e.g. an image) along with a target (e.g. what object is in the image), and the goal of the machine learning algorithm is to find out how to produce the target from the example.

More specifically, in supervised learning, we hypothesize a collection of functions (or mappings) parametrized by a parameter, from the examples (e.g. the images) to the targets (e.g. the objects in the images). The machine learning algorithm then automates the process of finding the parameter of the function that fits with the example-target pairs the best.

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