4. Introduction to Supervised Learning

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Common to all these “prediction problems" mentioned on the previously is that it is very
solution in terms of rules or code directly, and far easier to provide examples of correct
how would you encode rules for translation, or image classification? It is much easier to
of translated sentences, or examples of what the objects are on a large set of images.
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 give
image) along with a target (e.g. what object is in the image), and the goal of the machin
to find out how to produce the target from the example.

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

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