

Solution to Homework 23

Question. What is tuning and how is it different from machine learning?

Answer. We have:

- the data $(x^{(k)}, y^{(k)})$, and
- an algorithm $f_0(x)$ that fits the data, e.g., for which $f_0(x^{(k)}) \approx y^{(k)}$.

Tuning means finding an algorithm $f(x)$ that provides a better fit with the data.

The difference from machine learning is that, in addition to the data, we also have an algorithm $f_0(x)$ that fits the data.