

Machine learning

G. Châtel

Goal of machine learning

The idea of machine learning is to **predict** something from **data** and **experience**.

A good example of machine learning usecase is meteo prediction:

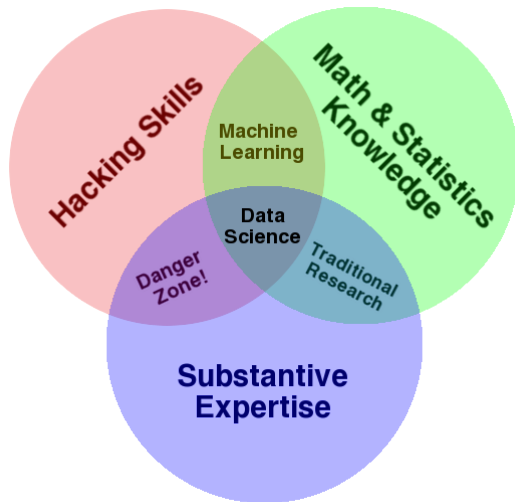
Experience: Paris usually have the same weather as London a day after.

Data: It is raining in London today.

Prediction: It will probably rain in Paris tomorrow.

Machine learning algorithms are **strategies** used by computer programs to complete this kind of tasks.

Data science



Example application: spam filter

- **Experience:** mail containing words like “lottery”, “viagra”, “transfer fee”, “penis” are usually spam emails depending on who you converse with.
- **Data:** It is raining in London today.
- **Prediction:** It will probably rain in Paris tomorrow.