

Machine Learning

Alvaro: "You come up with a model that uses information in the data to answer questions you might or might not have"

Learning from data. We try to extract important patterns and trends from the data in order to understand "what it says".

Different Types of Machine Learning

Supervised Learning

- **Predict outcome value** based on information of some input features
- For the data with which we are building our model, **we know the answer**

Types of Supervised Learning

1. Regression
 - Outcome value we want to predict is a **scalar value**
2. Classification
 - Outcome value is a category (eg. e-mail is spam or no-spam)

Unsupervised Learning

There is no outcome value. The goal is to describe associations and patterns among a set of input features.

(Reinforcement Learning)